



MONTHLY BULLETIN

OF THE

HEALTH DEPARTMENT

CITY OF BOSTON 3



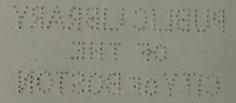
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HEALTH DEPARTMENT OF THE CITY OF BOSTON.

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VOL. 2.

Boston, January, 1913.

No. 1.

THE REGISTRATION OF PULMONARY TUBERCU-LOSIS IN BOSTON.

BY DAVID D. BROUGH, M. D. Medical Inspector, Boston Health Department.

The pioneer work on tuberculosis in Boston was done by private individuals and associations. What they have done touches every side of the tuberculosis question. It was chiefly due to their efforts that we have the present excellent system of state and municipal hospitals in Massachusetts. in the law by which tuberculosis was made an infectious disease. and by which, as in other infectious diseases, the expenses for its treatment were to be borne by the community of which the patient was a resident, was a great step forward. The consumptive is no longer regarded as a pauper and housed in the poorhouse, as he often was in the past.

Tuberculosis work has now in certain lines been transferred from private organizations and has become a part of municipal work. In Boston tuberculosis work is carried on by the Board of Health and the Boston Consumptives' Hospital Department, each entirely independent but acting in cooperation with each other. The Health Department receives the reports of the cases; the information in regard to the cases is obtained by the visiting nurses of the Consumptives' Hospital Out-Patient Department. The registration of tuberculosis is one of the important duties of the Health Department. Besides registration the Health Department is constantly doing other tuberculosis work.

First.— It furnishes free bacteriological examination of the sputum. It has stations in various sections of the city where outfits for the sputum examination can be obtained and whence the specimens can be sent to the laboratory free of expense.

Second.— The sanitary condition of every house where tuberculosis occurs is examined by an inspector of the Sanitary Division.

Third.—Every case where the house conditions are not approved by the visiting nurse is visited by a medical inspector from the Division of Communicable Diseases.

Fourth.— Every case that cannot be treated at home in a satisfactory manner, or may be a menace, is sent to the hospital. If the patient does not go willingly the power that is granted to the Health Department by law, of compelling the patient to go to the hospital, is judiciously exercised. No obstinate dangerous consumptive is allowed to stay at home. The homes of the city are now practically free of the advanced, careless, bedridden consumptive.

Fifth.—An examination of the condition of the children in the public schools, including an examination of the lungs for pulmonary disease, has been accomplished by the school physicians under the Division of Child Hygiene.

Sixth.— Disinfection is done by the department after every death or removal of a tubercular case.

Seventh.— The Board of Health has enforced the law against the spitting nuisance and obtained many convictions. It has placed notices in public places and conveyances warning against the dangerous habit.

Eighth.— Circulars regarding consumption are delivered to every person who is known to be suffering from the disease.

Compulsory notification of infectious diseases has been of slow development. Although smallpox has been required to be reported for over 100 years, the other diseases have been added only comparatively recently,—scarlet fever in 1877, diphtheria in 1878 and typhoid fever in 1881. Notification of tuberculosis was recommended by the International Medical Congresses at Paris in 1888 and 1893, and in the London Congress of 1901. Michigan in 1893 was the leader in the United States. On May 17, 1900, Boston began to require laryngeal and pulmonary tuberculosis to be reported. The Massachusetts State Board of Health, August 1, 1907, added tuberculosis to the list of reportable diseases.

The Boston Board of Health requires all forms of tuberculosis to be reported, laryngeal and pulmonary, and the various bone, glandular, skin and other kinds. There being a fairly distinct line between the different forms, the pulmonary and laryngeal cases are kept separate from the other forms. This article is restricted to a consideration of pulmonary and laryngeal tuberculosis. From the commencement of registration of pulmonary and laryngeal tuberculosis all reported cases have been visited by some agent of the department. At first the visits on these cases were made by the school physicians connected with the Health Department.

The Consumptives' Hospital Department of the city was established in September, 1907. Since May, 1910, the home visits have been made by the nurses connected with the outpatient work of that department. This has simplified matters greatly and relieves the patients from any unnecessary visits. In the early tuberculosis work it was no uncommon occurrence for the tuberculosis patient to be visited by representatives of five or six different organizations or departments, all doing some work on the same subject.

The cause of pulmonary tuberculosis is infection from human cases. Efforts for the suppression of the disease must in the main be directed against the infected individuals. Infection from bovine sources, through the milk, is now regarded by the best authorities as responsible for only a portion of the glandular and abdominal tuberculosis in children, and possibly rarely for the pulmonary form.

What has Boston accomplished in the registration of tuberculosis? The registration began in May, 1900. The following is a summary of the work of 12 years and $7\frac{1}{2}$ months:

Pulmonary and Laryngeal Tuberculosis.

| Year. | Total Cases. | Deaths. | Cases only Reported at Time of Death. |
|------------------|-----------------|---------|--|
| 1900 (7½ months) | 815 | 1,407 | |
| 1901 | 1,149 | 1,346 | |
| 1902 | 944 | 1,247 | |
| 1903 | 1,355 | 1,227 | |
| 1904 | 2,138 | 1,280 | 695 |
| [905 | 2,184 | 1,224 | 605 |
| 1906 | 2,131 | 1,185 | 406 |
| 1907 | 2,623 | 1,138 | 481 |
| 1908 | 2,646 | 1,094 | 400 |
| 1909 | 2,904 | 1,065 | 320 |
| 1910 | 3,479 | 1,163 | 328 |
| 1911 | 3,137 | 1,067 | 62 |
| 1912 | 3,332 | 1,093 | 40 |

In January, 1910, I was able to estimate that we had about 70 per cent of all cases of pulmonary and laryngeal tuberculosis on our registry. January 1, 1913, there were apparently about 95 per cent of the cases reported and on our records, a distinct and gratifying improvement. In 1910 only three cities in the United States made a better showing. It would be interesting to know how the comparison stands at present.

The apparent increase for some years has been due to more vigorous efforts to get all the cases reported. The sudden increase in 1910 over 1909 was due to the cooperation of most of the various hospitals and sanitoria in this city and this state in this work. At our request they sent us the names of all the patients who were in the hospital with a Boston residence, and we continue weekly to receive these reports, both of the patients admitted and of those who are discharged to presumably live in Boston. The next important cause was the more stringent enforcement of the law requiring the reporting of tuberculosis as an infectious disease. Every case unreported until the time of death has been carefully investigated and a satisfactory explanation demanded. During the past two vears the Board of Health has prosecuted five physicians for failing to report tuberculosis. Four were found guilty and fined \$50, and one was acquitted. These efforts have resulted in a great diminution of unreported cases. In 1910 there were 328, in 1912 only 40. These examples have been a warning to other physicians and more care is now exercised in reporting the cases. Physicians now realize that reporting tuberculosis is an obligation not to be neglected.

Unreported Cases.— There will probably always remain a certain number of cases which are only discovered to be tuberculosis at the time of death or as the result of autopsy findings. It is possible to reduce the number of unrecorded cases to a small number, but never perhaps obliterate them.

The reports of cases come about equally from the family physicians and the various hospitals and dispensaries in the city and state.

Number of Pulmonary and Laryngeal Cases in Boston.

In a chronic disease the Health Department has a different problem than in the ordinary acute infectious disease. The tuberculosis population is of an extremely migratory character, frequent in its changes of residence from one part of the city to another and its removal to other cities, states and countries. Many of the original reporting cards give addresses that are found to be fictitious. At the second visit many cases are found to have moved away. Excluding 1,700 cases that are known to have left the city permanently, 4,800 were found to be at their last recorded address or in the various tuberculosis hospitals in Boston or Massachusetts; 2,300 supposed to be in the city could not be found at last recorded address. The unreported cases estimated to be in the city probably number 400.

| Found and known at last visit | ٠. | | | • | 4,800 |
|---------------------------------------|----|------|--|---|-------|
| Reported but not found on last visit. | | | | | 2,300 |
| Estimated never to have been reported | | | | | 400 |
| | | | | | |
| | | | | | 7,500 |

This is the apparent number of reportable cases in the city January 1, 1913, based on a careful study of the cases carried on our registry. It would be interesting to know how long the average life of a consumptive is after infection. We have no definite means of obtaining this knowledge at present. We can, however, state definitely how long the cases have been on our registry from the time of the first report until death.

Of the 1,065 deaths in 1911

- 70.1 per cent died within one year after being reported.
- 21.7 per cent died one to two years after being reported.
 - 3.9 per cent died two to three years after being reported.
 - 1.0 per cent died three to four years after being reported.
 - .7 per cent died four to five years after being reported.

In 1912 there were 1.093 deaths:

- 66.8 per cent died within one year after being reported.
- 17.2 per cent died one to two years after being reported.
- 11.7 per cent died two to three years after being reported.
- 1.7 per cent died three to four years after being reported.
 - .9 per cent died four to five years after being reported.
 - .9 per cent died five to six years after being reported.

Looking over the past reports in the years previous to 1909, the time between reporting and death was very much shorter than at present. There is still necessity for an earlier report of tubercular cases, both for the care of the individual and the safety of the community.

NATIONALITY OF THE TUBERCULOSIS POPULATION.

The detailed figures would consume too much space, so they have been reduced to a basis of percentages for the main nationalities. The percentages are based upon an analysis of about

4,000 cases. Generalization between consumption and race is a rather delicate affair. The nationality has been determined by the birthplace of the mother. In cases of mixed parentage, foreign and American, the mothers' nativity alone is taken. The following shows the chief elements in the tuberculosis population.

Parentage, all ages:

| Ireland . : | | | , | 35.4 | Germany | | ٠. | , | 2.6 |
|-------------------|---|------|---|-------|--------------|--|----|---|-----|
| United States | | - 27 | | 20.3 | England . | | | | 2.4 |
| Canada | | | | .11.1 | Scandinavian | | | | 2.0 |
| Russia and Poland | l | | | 8.8 | Scotland . | | | | 1.7 |
| Italy | | | | 7.7 | | | | | |

The remainder is distributed among a dozen or more nationalities.

The position of the foreign-born alone shows:

| Ireland | | | | | 33.1 | Scandinavian | | | 4.0 |
|---------|----|--|----|-------|------|--------------|--|--|------|
| Canada | | | ٠, | .1 | 17.7 | Germany | | | 3.3 |
| Russia | | | | 2 | 15.9 | England . | | | -2.7 |
| Italy | ٠. | | ٠, | | 12.3 | Scotland . | | | 1.4 |

It is one of the sad features of tuberculosis cases that about 95 per cent are made up of adults, the most of these between the ages of fifteen and forty-five. Of the children, 84.4 are nativeborn; 15.6 foreign-born. The parentage of these children shows:

| United S | tate | s | | 27.2 | Canada . | | | 12.6 |
|----------|------|---|--|------|------------|--|--|------|
| Ireland | ٠. | | | 22.3 | England . | | | 3.0 |
| Russia | | | | 13.5 | Scotland . | | | 1.5 |
| Italy | | | | 12.9 | | | | |

Of the whole tuberculosis population the foreign-born show about 44 per cent of the cases. The foreign-born tuberculosis population and their children make up nearly 80 per cent. The 1910 United States census reports approximately one-third of the population of Boston to be of foreign birth. It can be seen that tuberculosis is apparently more prevalent among them than amongst the native-born of foreign parentage or of the native-born of American parentage.

It apparently seems that as the foreign population becomes incorporated in the American population there is a slow but sure tendency for tuberculosis to diminish.

OCCUPATIONS.

In looking over the occupations one is impressed with the fact that tuberculosis is a disease of the ordinary working people. It is diffused throughout the ordinary vocations of life. There are more than 200 different occupations given by our

tuberculosis population. Reduced to percentages the following show the greatest amounts:

| Housewives | Cooks 1 |
|--------------------------------|------------------------------|
| Laborers | Bartenders 1.3 |
| Clerks and bookkeepers 8.5 | Machinists 1.8 |
| Students 4.5 | Stonecutters (all sorts) 1.0 |
| Teamsters and drivers . 4.5 | Carpenters 1.0 |
| Tailors 3.0 | Laundry 1.0 |
| Waiters . 3.0 | Painters |
| Shoemakers and shoe shops, 2.0 | |

In this list one is impressed with the large number of housewives. This, I believe, is the main source of infection. If we could stamp out tuberculosis in the home we could make great progress in reducing the amount of the disease. Every effort for improving the home conditions helps to diminish tuberculosis. In many of the occupations, as laborers, clerks, teamsters, etc., the terms are simply general and no definite conclusion could be arrived at until we know the specific kind of business they are employed in.

In any occupation showing considerable tuberculosis there may be other factors than simply the character of the work. For example, tailors present a rather high tuberculosis rate. On investigation I found that a great many tailors in Boston are Russian Hebrews. I went over 258 tuberculosis cases of Russians. These 258 persons represent 61 occupations, 88 are housewives and 42 tailors; no other business has more than seven in that group. The question immediately presents itself—is the tailoring business especially subject to tuberculosis, or is there a great deal of tuberculosis there because the Russian Hebrews are engaged in it?

In the laundry business we have a moderate amount of tuberculosis, but many of the laundries are conducted by Chinamen, whom we know are very prone to tuberculosis. Is the disease here due to the occupation or the race? These same questions can be applied to other occupations and would be an interesting study.

If certain occupations show a high tuberculosis rate on our registry there are certain vocations, each of which include a large number of individuals, that have a surprisingly low rate. These are clergymen, lawyers, physicians, merchants, bankers, brokers, nurses, policemen, firemen, motormen, conductors, and members of other smaller groups.

The registration of tuberculosis has shown constant progress since its start in 1900. There are, of course, a large number of cases reported that cannot be located, as seen in the 2,300 not found cases. This is due to tuberculosis being a chronic infectious disease in persons whose liberty is not restricted, who carelessly or intentionally give incorrect addresses, and who frequently change their residence without leaving any information. A tuberculosis registry is practically remade every four years. If we follow all the reported cases for any year through a period of four years we find that 90 per cent disappear, due to deaths, removals and other causes. This proves how necessary is this constant, unobtrusive supervision of the cases after being reported. To make the work efficient hospital accommodations must be provided. Boston is fortunate at present in having a good registration, kept by the Board of Health, and an excellent and extremely satisfactory supervision of the cases by the visiting nurses of the Consumptives' Hospital, and ample facilities for the care of the necessary cases in the Boston Consumptives' Hospital. in the Massachusetts state hospitals under the control of the trustees of hospitals for consumptives, and in the various private institutions.

REGULATIONS FOR THE SALE AND CARE OF MILK.

Boston, January 8, 1913.

At a meeting of the Board of Health held this day, it was *Ordered*, That all rules and regulations heretofore adopted by the Board of Health for the sale and care of milk be hereby repealed and abolished, and the following rules and regulations adopted by said Board, the same having been made by virtue of the provisions of chapter 448, Acts of 1912.

ARTICLE I.

Section 1. All persons in the City of Boston engaged in the production of milk for sale, or in the conveyance in carriages for the purpose of selling, delivering or distributing milk in said city, shall, annually, on the first day of May, or within thirty days thereafter, make written application to the Inspector of Milk, on forms prescribed by the Board of Health, for a license. All persons in the City of Boston before selling milk or offering it for sale in a store, booth, stand or market place, shall make written application to the Inspector of Milk, on forms prescribed by the Board of Health, for a license.

Sect. 2. No person in said city shall engage in the business of producing milk for sale, or in the sale or distribution of milk in the City of Boston, without a license so to do, under these regulations and such other conditions as the Board of Health may impose; said license to be revoked if the licensee fails to comply with the conditions of his license and the regulations of this Board.

Sect. 3. The conditions under which every cow is kept whose milk is produced within, or brought into the City of Boston for sale, delivery or

distribution, and the method of handling such milk at the place of production, or during the time of its transit, or while it is being mixed, placed in containers, held, stored, heated or otherwise processed prior to such sale, delivery or distribution in said city, shall be made known by the licensee, or dealer, to the Board of Health and in such detail as said Board may require; and no milk except that, the conditions of producing and the methods of handling which have been made known as aforesaid, and no milk which is not produced or handled in a manner satisfactory to the Board of Health, shall be brought into, kept, delivered, distributed, sold or offered for sale in said city.

- Sect. 4. No milk shall be sold, offered for sale or distributed in the City of Boston which was drawn from cows within fifteen days before or five days after parturition, nor unless the cows from which it was derived have, within one year, been examined by a competent authority, and shown to be free from diseases dangerous to the public health.
- Sect. 5. Every person having a license to sell, deliver or distribute milk in the City of Boston, shall keep a copy of the same constantly posted in a conspicuous place on his premises, and shall have his name, the number of his license and his place of business marked in plain, uncondensed Gothic letters, not less than one inch in height, on all vehicles used by him in the conveyance and sale of milk.

ARTICLE II.

- Section 1. No milk kept for sale or distribution shall be stored in any portion of a building which is used for the stabling of horses, cows or other animals, or for the storing of manure, or in any room used in whole or in part for domestic or sleeping purposes, unless the storage room for milk is separated from other parts of the building to the satisfaction of the Board of Health.
- Sect. 2. No person engaged in the business of producing milk for sale, or in the business of storing, selling or delivering milk in said city, shall store, cool, strain or mix said milk in any room which is occupied by horses, cows or other animals. All rooms in which milk is stored, cooled, strained or mixed, shall be provided with tight walls and floor and kept constantly clean. The walls and floors of said rooms shall be of such construction as to allow easy and thorough cleansing. The room or rooms aforesaid shall contain proper appliances for washing or sterilizing all utensils actually employed in the storage, mixing or cooling, sale or distribution of milk, and all such apparatus and utensils shall be washed with boiling water or sterilized by steam regularly after being so used.
- Sect. 3. No urinal, water-closet or privy shall be located in the rooms called for in the preceding section, or so situated as to pollute the atmosphere of said rooms.
- Sect. 4. All milk produced for the purpose of sale shall be strained and cooled as soon as it is drawn from the cow.

ARTICLE III.

Section 1. Milk kept for sale in any store, shop, restaurant, market, bakery, or other establishment, shall be stored in a covered cooler, box or refrigerator. No vessel containing milk for sale shall be allowed to stand outside said cooler, box or refrigerator, except while a sale of said milk is being made. Every such cooler, box or refrigerator, shall be properly drained and cared for, and shall be kept tightly closed, except during such intervals as are necessary for the introduction or removal of milk or ice,

and they shall be kept only in such locations and under such condition as shall be approved by the Board of Health.

ARTICLE IV.

SECTION 1. All cans, bottles or other vessels of any sort, used in the sale, delivery or distribution of milk shall be cleansed or sterilized before they are again used for the same purpose, and all wagons used in the conveyance of milk for sale or distribution shall be kept in a cleanly condition and free from offensive odors. No person shall use a milk vessel as a container for any other substance than milk.

ARTICLE V.

Section 1. Every person engaged in the production, storage, transportation, sale, delivery, or distribution of milk, immediately on the occurrence of any case or cases of infectious disease, either in himself or in his family, or amongst his employees or their immediate associates, or within the building or premises where milk is stored, sold or distributed, shall notify the Boston Board of Health, and at the same time shall suspend the sale and distribution of milk until authorized to resume the same by the said Board of Health. No vessels which have been handled by persons suffering from such diseases shall be used to hold or convey milk until they have been thoroughly sterilized.

ARTICLE VI.

Section 1. No person, by himself or by his servant or agent, or as the servant or agent of any other person, firm or corporation, shall in the City of Boston sell, exchange, or deliver or have in his custody or possession with intent to sell, exchange, or deliver, any milk, skimmed milk or cream which contains more than 500,000 bacteria per cubic centimeter, or which has a temperature higher than fifty degrees Fahrenheit.

ARTICLE VII.

- Section 1. No person or corporation shall sell or offer, expose or keep for sale in any shop, store or other place, milk or cream, unless the same is sold or offered, exposed or kept for sale in tightly closed or capped bottles or receptacles. Nothing contained herein shall prevent the sale of milk or cream from cans, crocks, coolers or other receptacles in restaurants, hotels, barrooms, or at soda fountains, when the milk or cream is to be consumed in the restaurant or hotel by guests or patrons ordering the same.
- Sect. 2. Every person or corporation engaged in the business of selling or delivering milk or cream shall, immediately upon receiving a written order from the Board of Health so to do, comply with any requirement of said board respecting the filling of milk and cream in bottles or receptacles, the manner and methods employed in such filling or the conditions and surroundings under which such filling is done and carried on. The filling of bottles or cans with milk or cream, for sale or delivery upon wagons or on any public or private way or in any place for which permission for such filling has not previously been obtained from the Board of Health, is prohibited.
- Sect. 3. No person or corporation shall sell or offer, expose or keep for sale at retail milk or cream in the room or store where the same is put into bottles or receptacles.

ARTICLE VIII.

Section 1. Whoever tests milk or cream which is to be offered for sale in any form by tasting shall do so by means of a spoon or piece of wood,

paper, cardboard or other article, and such spoon, piece of wood, paper. cardboard, or other article shall not again be brought in contact with milk or cream intended for sale, or be used for testing milk or cream until after being thoroughly washed and sterilized; no person shall permit his hands, fingers, lips or tongue to come in contact with milk or cream intended for sale in any form. All persons engaged in the tasting, mixing or handling of milk or cream for sale in any form shall before engaging in such tasting, mixing or handling, thoroughly clean his hands and finger nails and keep them clean and dry during such tasting, mixing or handling. No person shall permit his hands while wet to remain or pass over any open vessel containing milk or cream intended for sale in any form. No person shall fill a jar, can or other receptacle with milk or cream while the aforesaid jar, can or other receptacle is held over an open vessel containing milk or cream intended for sale in any form. No person who has sore throat, diarrhea, or is suffering from any other disturbance of the bowels, or has symptoms of infectious or contagious disease, shall engage in the handling of milk or cream which is to be offered for sale or which is for sale.

ARTICLE IX.

Section 1. All persons having the possession or custody of bottles, cans or other receptacles used in the sale, delivery and transportation of milk, cream, skimmed milk or buttermilk, shall cause any such bottle, can or receptacle to be cleaned immediately upon emptying the same; and no person shall deliver, receive or have in his possession or custody any such bottle, can or receptacle so used which has not been cleaned as aforesaid.

ARTICLE X.

SECTION 1. No person shall expectorate or spit, except in receptacles provided for the purpose, in or upon any part of any room, vehicle, railroad car, railroad platform, or other place used for the sale, storage, handling or transportation of milk.

A true copy.

Attest:

F. H. SLACK, Secretary.

REGULATION FOR THE MANUFACTURE, SALE AND CARE OF ICE CREAM.

Boston, January 8, 1913.

At a meeting of the Board of Health held this day, it was *Ordered*, That all rules and regulations heretofore adopted by the Board of Health for the manufacture, sale and care of ice cream be hereby repealed and abolished, and the following rules and regulations adopted by said Board, the same having been made by virtue of the provisions of chapter 448, Acts of 1912.

ARTICLE I.

Section 1. No ice cream shall be manufactured or stored in any portion of a building which is used for the stabling of horses, or other animals, or in any room used in whole or in part for domestic or sleeping purposes, unless the manufacturing and storage room for ice cream is separated from other parts of the building to the satisfaction of the Board of Health.

- Sect. 2. All rooms in which ice cream is manufactured or stored shall be provided with tight walls and floors and kept constantly clean. The walls and floors of said rooms shall be of such construction as to permit rapid and thorough cleansing. The room or rooms aforesaid shall be equipped with appliances for washing or sterilizing all utensils employed in the mixing, freezing, storage, sale or distribution of ice cream, and all such utensils after use shall be thoroughly washed with boiling water, or sterilized by steam. Vessels used in the manufacture and sale of ice cream shall not be employed as containers for other substances than ice cream.
- Sect. 3. All establishments in which ice cream is manufactured shall be equipped with facilities for the proper cleansing of the hands of operatives, and all persons immediately before engaging in the mixing of the ingredients entering into the composition of ice cream, or its subsequent freezing and handling, shall thoroughly wash his or her hands and keep them cleanly during such manufacture and handling. All persons shall be dressed in clean outer garments while engaged in the manufacture and handling of ice cream.
- Sect. 4. No urinal, water-closet or privy shall be located in the rooms mentioned in the preceding section, or so situated as to pollute the atmosphere of said rooms.
- Sect. 5. All vehicles used in the conveyance of ice cream for sale or distribution shall be kept in a cleanly condition and free from offensive odors.

ARTICLE II.

Section 1. Ice cream kept for sale in any shop, restaurant or other establishment, shall be stored in a covered box or refrigerator. Such box or refrigerator shall be properly drained and cared for, and shall be kept tightly closed, except during such intervals as are necessary for the introduction or removal of ice cream or ice, and they shall be kept only in such locations and under such conditions as shall be approved by the Board of Health.

ARTICLE III.

Section 1. Every person engaged in the manufacture, storage, transportation, sale or distribution of ice cream, immediately on the occurrence of any case or cases of infectious disease, either in himself or in his family, or amongst his employees, or within the building or premises where ice cream is manufactured, stored, sold or distributed, shall notify the Boston Board of Health and at the same time shall suspend the sale and distribution of ice cream until authorized to resume the same by the said Board of Health. No vessels which have been handled by persons suffering from such disease shall be used to hold or convey ice cream until they have been thoroughly sterilized.

ARTICLE IV.

Section 1. All cream, milk or skimmed milk, employed in the manufacture of ice cream, shall before use be kept at a temperature not higher than fifty degrees Fahrenheit.

Sect. 2. No old or melted ice cream, or ice cream returned to a manufacturer from whatever cause, shall again be used in the preparation of ice cream.

A true copy.

Attest:

F. H. SLACK, Secretary.

SUMMARY OF VITAL STATISTICS FOR THE MONTH OF JANUARY, 1913.

Boston had 1,130 deaths in January, 1913, compared with 1,097 for January of last year; and a death rate of 18.09 against 17.94 for January, 1912.

Deaths of nonresidents numbered 146 against 137 a year ago. Deducting deaths of nonresidents the corrected death rate for January, 1913, was 15.75 against 15.70 for January, 1912.

Of deaths from reportable diseases the principal decrease was diphtheria, 8, and the principal increases were scarlet fever, 11; tuberculosis, all forms, 7; whooping cough, 4, and cerebrospinal meningitis, 4.

Other important differences were as follows:

| January, 1913, decreases of Violent deaths . Heart disease and nep | | | | | ٠. | | | •. | 20 13 |
|--|------|-------|-------|-----|------|-------|----|----|----------|
| January, 1913, increases co | mpa | ared | with | Jan | uary | , 191 | 2: | | |
| Pneumonia and bronc | ho-p | neur | nonia | a . | | | | | 21 |
| Apoplexy | | | | | | | | | 8 |
| Acute bronchitis . | | | | | | | | | 6 |
| Cancer | | | | | | | | | 5 |
| Diarrhea and enteritis | (un | der 2 | yea | rs) | | | | | 5 |
| Appendicitis | | | | | | | | | 5 |
| Puerperal septicemia | | | 1. | | | | | | . 4 |

Ward 26 had the lowest rate, 4.37, and Ward 4 the highest, 25.58.

There were 23 more deaths under 1 year than in January, 1912, 9 more under 5 years, and 8 more over 60. Total deaths under 1 year were 185, which is 15 more than the average number for January for the preceding 5 years.

Seventy-nine of these deaths were due to premature birth, congenital debility, malformations and other diseases peculiar to early infancy; 47 to pneumonia and broncho-pneumonia; 18 to diarrhea and enteritis; 16 to reportable diseases, and 25 to other causes.

Of these deaths under 1 year, Ward 6 had the largest number, 16, and Ward 24 came next with 13.

One hundred and sixteen were over 2 weeks old and 69 of these were bottle fed.

GENERAL STATISTICS. Population, Ward Area, Persons to Acre, and Rates.

| | | us, | nd. la- | | STILLB | ırтнs E: | XCLUDED. |
|----------|---------------------|--------------------------|--|--|--|--|---|
| | Land Area in Acres. | Population, 1910 Census. | Persons to Acre of Land. (Using Census Population.) | Population, Estimated, July 1, 1913.† | Death Rates, 1912. (Population, Estimated.)† | Birth Rates, 1911. (Population, Estimated.)† | Death Rates, 1912, of Children Under One Year, Per 1,000 Births, 1911. |
| * Boston | 27,674 | 686,092 | 24.8 | 735,399 | 16.16 | 25.99 | 119.35 |
| Wards 1 | 1,188 | 29,676 | 24.9 | 32,439 | 13.05 | 24.90 | 104.58 |
| 2 | 357 | 28,812 | 80.7 | 30,676 | 17.11 | 33.37 | 120.81 |
| 3 | 332 | 15,339 | 46.2 | 15,667 | 15.29 | 26.84 | 106.02 |
| 4 | 301 | 13,294 | 44.1 | 13,808 | 18.02 | 25.50 | 148.26 |
| 5 | 207 | 12,811 | 61.9 | 12,914 | 16.69 | 24.28 | 118.59 |
| 6 | 293 | 35,758 | 122.0 | 39,492 | 16.18 | 48.81 | 100.33 |
| 7 | 394 | 14,913 | 37.9 | 14,483 | 19.98 | 26.57 | 94.39 |
| 8 | . 171 | 32,430 | 189.6 | 33.479 | 12.07 | 33.21 | 70.64 |
| 9 | 186 | 26,427 | 141.5 | 29,214 | 15.13 | 27.40 | 106.24 |
| 10 | 394 | 25,320 | 64.3 | 26,277 | 11.82 | 10.51 | 114.81 |
| 11 | 663 | 27,444 | 41.4 | 30,738 | 9.69 | 14.22 | 63.73 |
| 12 | 235 | 24,294 | 103.4 | 25,948 | 14.94 | 14.57 | 181.82 |
| 13 | 611 | 21,561 | 35.3 | 21,501 | 17.24 | 31.11 | 117.91 |
| 14 | 405 | 23,584 | 58.2 | 24,527 | 14.44 | 24.14 | 115.92 |
| 15 | 277 | 21,216 | 76.6 | 21,803 | 14.80 | 20.25 | 119.82 |
| 16 | 564 | 25,633 | 45.6 | 28,033 | 12.75 | 24.23 | 110.42 |
| 17 | 460 | 26,426 | 57.4 | 27,793 | 15.46 | 25.65 | 117.22 |
| 18 | 220 | 22,735 | 103.3 | 23,133 | 17.08 | 25.08 | 99.30 |
| 19 | 760 | 31,714 | 41.7 | 33,332 | 13.77 | 22.77 | 111.41 |
| 20 | 1,716 | 55,720 | 32.5 | 64,723 | 12.95 | 20.33 | ‡ 159.73 |
| 21 | 640 | 30,511 | 20.5 | 33,085 | 13.54 | 17.53 | 85.14 |
| 22 | 760 | 29,975 | 38.1 | 31,403 | 12.50 | 20.55 | 100.48 |
| 23 | 7,617 | 30,668 | 4.0 | 33,423 | 12.13 | 19.93 | 94.94 |
| 24 | 3,252 | 37,749 | 11.6 | 41,695 | 12.63 | 23.73 | 103.11 |
| 25 | 2,740 | 26,575 | 9.7 | 29,661 | 11.95 | 24.73 | 96.21 |
| 26 | 2,869 | 15,507 | 5.4 | 16,152 | 12.29 | 29.59 | 107.30 |

^{*}Hyde Park was annexed to Boston January 1, 1912, and became Ward 26. Under "Boston," in the above table, Hyde Park statistics are included.

[†] Population estimated by arithmetical method, using the Censuses of 1905 and 1910. ‡ An infant asylum is located in this ward.

VITAL STATISTICS.

January. General Summary.

| | | | | 1913. | 1912. |
|------------------------|--|--|----|---------|---------|
| Total deaths | | | | 1,130 | 1,097 |
| Population, estimated* | | | | 735,399 | 720,031 |
| Death rate per 1,000 | | | | 18.09 | 17.94 |
| Deaths of nonresidents | | | ٠. | 146 | 137 |
| Corrected death rate† | | | | 15.76 | 15.70 |

^{*}Population estimated by arithmetical method, using the Censuses of 1905 and 1910.

†Nonresidents not included.

January, 1913. Statement of Deaths.

| Total numbe | r (st | illbii | rths | ex- | | NATIVITY. | | | | | | | |
|----------------|-------|--------|------|-----|-------|-------------------|-----|------|-----|--|--|--|--|
| cluded) | | | | | 1.130 | United States . | | | 680 | | | | |
| <i></i> | | | | | _, | Ireland | | | 203 | | | | |
| | Si | ex. | | | | England and Wales | | | 33 | | | | |
| Males . | | | | | 594 | Scotland | | | 5 | | | | |
| Females . | | | | | 536 | Germany | | | 14 | | | | |
| | | | | | | Canada | | | 90 | | | | |
| (| COND | ITIO | N. | | | Italy | | | 22 | | | | |
| Single . | | | | | 481 | Russia and Poland | | | 43 | | | | |
| Married . | | | | | 393 | Sweden and Norway | | | 11 | | | | |
| Widowed. | | | | | 244 | France | | | 1 | | | | |
| | | | | | | Other countries . | | | 13 | | | | |
| Divorced | | | | | 5 | Unknown | ٠ | | 15 | | | | |
| Unknown | | | | | 7 | NATIVITY OF M | отн | ERS. | | | | | |
| | Cor | LOR. | | | | United States . | | | 299 | | | | |
| White . | | | | | 1.097 | Ireland | | | 368 | | | | |
| Black (negro | | | | | | England and Wales | | | 49 | | | | |
| , , | | | | | | Scotland | | | 18 | | | | |
| Chinese . | • | • | | ٠ | 1 | Germany | | | 25 | | | | |
| Japanese . | | | | | 1 | Canada | | | 104 | | | | |
| Deaths of ch | ildre | n: | | | | Italy | | | 70 | | | | |
| Under one | vear | | | | 185 | Russia and Poland | | | 66 | | | | |
| | | | | | | Sweden and Norway | | | 15 | | | | |
| Under two | | | | | 212 | France | | | 2 | | | | |
| Under five | year | S | | | 250 | Other countries . | | | 16 | | | | |
| Stillbirths du | iring | the | mon | th, | 60 | Unknown | | | 98 | | | | |

| J 6 | inuary, 1913. | | | | | | | | | Mort | anty | Бу |
|--------------------------------|---|-------------------|-------------------|------------|----------|----------|----------|--------|------------|----------|----------|----------|
| Abridged List Class Number. | | Тот | 1 | Year. | | | | | Years. | Years. | Years. | Years. |
| idge ass 1 | CAUSES OF DEATH. | uary | January, 1912. | er 1 | Year. | Years. | Years. | Years. | ler 5 | 0 | to 14 | to 19 |
| Abr | | January, 1913. | Jan 19 | Under | 1 Y | 2 Y. | 3 Y. | 4 Y | Under | 5 to | 10 t | 13. |
| | Total, all causes | 1,130 | 1,097 | 185 162 | 27 39 | 19 16 | 13 16 | 6 8 | 250 241 | 23 21 | 13 11 | 16 18 |
| 1 | Typhoid fever | •4 | 5 | | | | | | | | 1 | |
| 3 | Malarial fever | | | | | | | | | | | |
| · 4 | Smallpox | • • • • • • | | | | | | | | | | |
| 5 | Measles | 9 | 8 | 4 | 2 | 1 | 1 | | 8 | 1 | | |
| 6 | Scarlet fever | 12 | 1 | | 1 | 3 | 2 | 2 | 8 | 3 | | |
| 7 | Whooping cough | 8 | 4 | 5 | | 2 | 1 | | 8 | | | |
| 8 | Diphtheria and croup | 13 | . 21 | | 3 | 1 | 1 | 1 | 6 | 5 | 1 | |
| 9 | Influenza | 6 | 6 | 1 | | | | | 1 | | | |
| 12 | Other epidemic diseases | . 3 | 5 | 2 | | | | | 2 | | | |
| 13 | Tuberculosis of the lungs | 108 | 104 | 1 | 2 | 1 | | | 4 | 3 | 1 | . 2 |
| 14 | Tuberculous meningitis | 17 | 11 | 4 | 4 | 2 | 3 | | 13 | 1 | 1 | 1 |
| 15 | Other forms of tuberculosis: | 4 | 7 | | | | | | | | 2 | |
| 16 | Cancer, malignant tumor | 68 | 63 | | 1 | | | | 1 | | | |
| 17 | Simple meningitis (except cerebro- | 7 | 5 | | . 2 | | | | 2 | | | |
| 17a | spinal meningitis). Cerebro-spinal meningitis | 6 | . 2 | 2 | | | 1 | | 3 | 1 | 1 - | |
| 18 | Apoplexy and softening of the brain, | 56 | 48 | | | | | | | 1 | | |
| 19 | Organic heart diseases | 165 | 162 | | | | | | | 2 | 1 | 2 |
| 20 | Acute bronchitis | 16 | 10 | 7 | 1 | | | | . 8 | | | |
| 21 | Chronic bronchitis | 3 | 6 | | | | | | | | | |
| 22 | Pneumonia (except broncho-pneu- | 124 | 113 | . 18 | 3, | 4 | . 2 | | 27 | | - 1 | 3 |
| 22a | monia). Broncho-pneumonia | 62 | 52 | 29 | 4 | 3 | | | 36 | 1 | | |
| 23 | Other respiratory diseases | 10 | 10 | | | | | 1 | 1 | | | |
| 24 | Diseases of the stomach (cancer ex- | 5 | 13 | | | | | | | | | |
| 25 | cepted). Diarrhea and enteritis (under two | 20 | 15 | 18 | 2 | | | | 20 | | | |
| 26 | years). Appendicitis and typhlitis | 13 | 8 | | | | | 1 | 1 | 1 | 1 | 2 |
| 27 | Hernia, intestinal obstruction | 8 | 6 | | | | | | | | : | |
| 28 | Cirrhosis of liver | 4 | 8 | | | | | | | | | |
| 29 | Bright's disease and nephritis | 51. | 67 | 1 | | | | 1 | 2 | 1 | | |
| 30 | Diseases of women (not cancer) | 10 | 5 | | | | | | | | | |
| 31 | Puerperal septicemia | 6 | 2 | | | | | | | | 1 | |
| 32 | Other puerperal diseases | 9 | 4 | | | | | | | | | 1 |
| 33 | Congenital debility and malforma- | 61 | 59 | 61 | | | | | 61 | | | |
| 34 | tions. Old age | 4 | 4 | | | | | | | | | |
| 35 | Violent deaths | 57 | 77 | 1 | | | 2 | | 3 | | 2 | |
| 36 | Suicide | 8 | 11- | | | | | | | | | |
| 37 | Other diseases | 170 | 172 | 30 | 2 | 2 | | | 34 | 3 | | 5 |
| 38 | Ill-defined causes | 3 | 3 | 1 | | | | | 1 | | | |
| | | | | | | | 1 | ļ | l | | | 1 |

January, 1913.

| 20 to 24 Years. | Years. | 34 Years. | Years. | Years. | Years. | Years. | Years. | Years. | 69 Years. | 70 to 74 Years. | 79 Years. | 84 Years. | 85 to 89 Years. | and | | Sex. | Abridged List Class Number. |
|-----------------|------------------|-----------|----------|----------|----------|----------|----------|----------|-----------|-----------------|-----------|-------------|-----------------|------------|------------|------------|--------------------------------|
| 24 7 | to 29 7 | 34 | 30 | to 44] | 49 | 54 | 20 | 54 | 69 7 | 74 | 79.7 | 84 7 | 89 7 | 90 Years s | σż | Females. | ged ss N |
| 0 to | 25 to | 30 to | 35 to | 40 to | 45 to | 50 to | 55 to | 60 to | 65 to | 0 to | 75 to | 80 to 8 | 5 to | O Y O | Males. | Pema | brid |
| - | | | 1. | | 1 | 1 | 1 | | <u> </u> | 1 | | | 1 | 1 | 1 | 1 | Y |
| 30 26 | 58 3 3 | 44 62 | 67 64 | 68 61 | 81 65 | 61 81 | 72 75 | 77 72 | 72 70 | 68 80 | 51 58 | 46 37 | 23 11 | 10 | 594 586 | 536 511 | |
| | 1 | 1 | 1 | | | | | | | | | | | | 1 | 3 | . 1 |
| | | | | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | 4 |
| | | | | | | | | | | | | | | | 4 | 5 | 5 |
| • • • • • | | | | | | 1 | , | | | | | | | | 7 | 5 | 6 |
| • • • • • | | | | | | | | | | | | | | | 4 | 4 | 7 |
| 1 | | | | | | | | | | | | | | | 8 | 5 | 8 |
| | | | 1 | 1 | | | | 1 | 1 | 1 | | | | | 2 | 4 | 9 |
| | | | | | - 1 | | | | | | | | | | 3 | | 12 |
| 5 | 19 | 15 | 15 | 16 | . 7 | 8 | 6 | 3 | 3 | | | 1 | | | 67 | 41 | 13 |
| | 1 | | | | | | | | | | | | | | 11 | . 6 | 14 |
| | | 1 | 1 | | | | | | • • • • • | | | | | | 1 | . 3 | 15 |
| | 2 | | 3 | 8 | .10 | 6 | 6 | 12 | 7 | 5 | 5 | 2 | 1 | | 33 | 35 | -16 |
| 1 | | 1 | | | | . 1 | 1 | | | | | 1 | | | 5 | 2 | 17 |
| • • • • • | 1 | | **** | | | | | | | | | | | | 1. | 5 | 17a |
| | | | 3 | 3 | 4 | 4 | 8 | 3 | 8 | 7 | 7 | 4 | 4 | | 24 | 32 | 18 |
| 4 | 6 | 6 | 5 | 9 | 11 | 12 | 19 | 26 | 19 | 15 | 11 | 13 | 2 | 2 | 76 | 89 | 19 |
| | | | | | | | | 1 | 1 | | | | 5 | 1 | 8 | 8 | 20 |
| | 1 | | | | | | | | | 1 | | 1 | | | 1 | 2 | 21 |
| 2 | 6 | 2 | 8 | 7 | 11 | 6 | 7 | 7 | 9 | 9 | 8 | 9 | | .2 | 67 | 57 | 22 |
| | | 2 | 1 | | 1 | 1 | 2 | 2 | 2 | 4 | 4 | 4 | 1 | 1 | 30 | 32 | 22a |
| • • • • • | | | 3 | 1 | 3 | | | | | 1 | 1 | | | | . 5 | 5 | 23 |
| | 1 | | 1 | | | | | 1 | | | | 1 | | 1 | 3 | 2 | 24 |
| ••••• | | | | | | | | | | | | | | ,. | 9 | 11 | 25 |
| 1 | . 2 | 2 | 1 | 1 | 1 | | | | | | | | | | 9. | 4 | 26 |
| | • • • • • | | 1 | 1 | | | 1 | 2 | 2 | | | 1 | | | 4 | 4 | 27 |
| | | | | | 1 | 3 | | | | | | | | | 2 | 2 | 28 |
| 1 | 5 | 1 | | 1 | 5 | 3 | 10 | 5 | 5. | 5 | 4 | 1 | 1 | 1 | 27 | 24 | 29 |
| 1 | 2 | 1 | 2 | | 1 | 1 | | | 1 | 1 | | | | | | 10 | 30 |
| .1 | ••••• | 3 | 1 | | | | | | | | | | | | | - 6 | 31 |
| 5 | | | | | | | | | | | | | | | | . 9 | 32 |
| | | | | | | | | | | | | • • • • • | | | | 21 | 33 |
| | | | | | | | | | | 1 | | | | | | 4 | 34 |
| 3 | 9 | 4 | | 5 | 6 | 4 | 3 | 3 | 1 | 2 | 7 | | | | 41 | 16 | 35 |
| 2 | | | | | | | | | | 1 | | | | | 7 | 1 | 36 |
| 3 | 1 | 4 | 12 | 14 | | 11 | 9 | 10 | 12 | 15 | 3 | 8 | 9 | 1 | 93 | 77 | 37 |
| | | | 1 | 1 | | | | | • • • • • | | | | | | 1 | 2 | 38 |

the following occurred among cases sent to Boston for treatment:-Measles, 1.

| Abridged List Class Number. | CAUSES OF DEATH. | Boston. | | 1. | | | WARD | RESII | DENCE. | | | | |
|--------------------------------|---|----------------|----------------|-----------------|----------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------|----------------|----------------|-----------------------|
| Abri | | Bos | 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | -11. |
| | All causes | 1,130 | 35 | 24 | 23 | 30 | 26 | 48 | 27 | 33 | 43 | 34 | 28 |
| | Rates per 1,000 Jan., 1913 population Jan., 1912 | 18.09 17.94 | 12.70 16.03 | $9.21 \\ 16.43$ | 17.29 18.15 | $\frac{25.58}{25.02}$ | $\frac{23.71}{19.19}$ | $\frac{14.31}{16.90}$ | $\frac{21.95}{20.14}$ | 11.61 14.92 | 17.33 17.86 | 15.23 15.41 | $\frac{10.73}{14.27}$ |
| 1 | Typhoid fever | 4 | | | 1 | | | | 1 | | | | |
| 3 | Malarial fever | : | | | | | | | | | | | |
| 4 | Smallpox | | | | | | | | | | | | |
| 5 | Measles | 9 | | | | | | 1 | | | 1 | | |
| 6 | Scarlet fever | 12 | | | | | 1 | | | | 2 | | |
| 7 | Whooping cough | 8 | | 1 | | | | 1 | | | 2 | du | |
| 8 | Diphtheria and croup | 13 | | 1 | | | | 5 | | | | | |
| 9 | Influenza | 6 | | | | | | | | | | | |
| 12 | Other epidemic diseases | 3 | | | | | | | | 1. | | | |
| 13 | Tuberculosis of the lungs | 108 | 4 | 2 | 1 | 5 | 2 | 4 | 5 | 2 | 2 | 2 | 1 |
| 14 | Tuberculous meningitis | 17 | | 1 | | , | | 1 | | 1 | 1 | | · |
| 15 | Other forms of tuberculosis | . 4 | | | | | | | | | | 1.1 | |
| 16 | Cancer, malignant tumor | 68 | 3 | 3 | 3 | 2 | 2 | | 3 | 4 | 1 | 2 | 2 |
| 17 | Simple meningitis (except | 7 | | | | | | | | : | 1 | | |
| 17a | cerebro-spinal meningitis). Cerebro-spinal meningitis | 6 | 1 | | | | | | | | . , | | |
| 18 | Apoplexy and softening of the | 56 | 2 | 3 | | 2 | 1 | | 1 | 2 | 3 | | . 3 |
| 19 | brain. Organic heart diseases | 165 | 6 | 3 | 4 | 4 | 3 | 5 | | 3 | 3 | 5 | 11 |
| 20 | Acute bronchitis | 16 | | | | | 1 | 1 | . 1 | | . 1 | | |
| 21 | Chronic bronchitis | 3 | | | | 1 | | | | 1 | | | |
| 22 | Pneumonia (except broncho- | 124 | 8 | 1 | 4 | . 3 | 4 | 7 | 3 | 3 | 7 | 3 | 3 |
| 22 a | pneumonia). Broncho-pneumonia | | . 4 | 2 | 3 | 1 | | 6 | 2 | 3 | 1 | 1 | |
| 23 | Other respiratory diseases | 10 | | 1 | | 1 | | | 1 - | | 2 | 1 | |
| 24 | Diseases of the stomach (cancer | 5 | 1 | | | 1 | | | . 1 | | | | |
| 25 | excepted). Diarrhea and enteritis (under | 20 | | | | . 2 | | 2 | . , | 1 | | | |
| 26 | two years). Appendicitis and typhlitis | 13 | 1 | | | | | 1 | | | 1 | 1 | |
| 27 | Hernia, intestinal obstruction, | 8 | | , | | | | | | | | 1 | |
| 28 | Cirrhosis of liver | 4 | | | 1 | | | ., | | | 1 | | |
| 29 | Bright's disease and nephritis | 51 | . 1 | | 2 | 2 | 1 | 2 | 1 | 2 | | 2 | 1 |
| 30 | Diseases of women (not cancer), | . 10 | | | 1 | | | | | | | | |
| 31 | Puerperal septicemia | 6 | | | | | | | | | | 1 | |
| 32 | Other puerperal diseases | 9 | | | | | 1 | 1 | | 1 | -1 | | |
| 33 | Congenital debility and mal- | | 1 | 2 | 2 | | 1 | 2 | 2 | 1 | 2 | . 3 | |
| 34 | formations. Old age | 4 | 1 | | | | | ., | | | | . 1 | |
| 35 | Violent deaths | 57 | | . 1 | 1. | . 3 | 1 | . 3 | 2 | 4 | 2 | 1 | |
| 36 | Suicide | . 8 | | | | | | | . 1 | | | 1 | |
| 37 | Other diseases | | 2 | 3 | | 3 | 7 | 6 | 3 | 4 | 9 | 9 | 7 |
| 38 | Ill defined causes | | | | | | . 1 | | | | | | |
| | Total deaths under one year | | •2 | 5 | 4 | 3 | 2 | 16 | 4 | -8 | 4 | 6 | 1 |
| | 1 Out down Lines one | - | | | | | | | | | | | |

| - | Ward Residence. | | | | | | | | | | | | | | Boston, Ward Unknown. | idents. | wn. | d List |
|----------------|-----------------|----------------|-------|----------------|----------------|----------------|-------|----------------|----------------|-------|----------------|----------------|------|----------------------|--------------------------|---------------|----------|-------------------------------|
| 12. | 13. | 14. | 15. | 16. | 17. | 18. | 19. | 20. | 21. | 22. | 23. | 24. | 25. | 26. | Boston | Nonresidents. | Unknown. | Abridged List Class Number |
| 37 | 29 | 36 | 31 | 53 | 47 | 37 | 59 | 81 | 55. | 41 | 48 | 50 | 16 | 6 | 2 | 146 | 5 | |
| 16.79 13.43 | 15.88 21.89 | 17.28 16.04 | 16.74 | 22.26 16.40 | 19.91 16.78 | 18.83 17.40 | 20.84 | 14.74 14.64 | 19.57 14.22 | 15.37 | 16.91 11.93 | 14.12 14.55 | 6.35 | $\frac{4.37}{12.55}$ | | | | |
| | | | | 1 | | | | | | | | 1 | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | | 4 |
| | | | | | 2 | 1 | 1 | 2 | | | | | | | | 1 | | 5 |
| | 3 | | | 2 | | | . 1 | 2 | | | | | 1 | | | | | 6 |
| | 1 | 1 | | | 2 | | | | | | | | | | | | | 7 |
| | | | | | | 1 | 2 | . 2 | 1 | | 1 | | | | | | | 8 |
| | | 1 | | | 1 | 1 | 2 | | 1 | | | | | 1 | | | | 9 |
| | 1 | | | | | | | | | | 1 | , | | | | | | 12 |
| 1 | 1 | 7 | 8 | 9 | . 7 | 3 | 4 | 8 | 4 | 4 | : 6 | 1 | | 1 | | 11 | 1 | 13 |
| | 1 | . 1 | 1 | 2 | | | 2 | | 1 | | 1 | . 1 | . 1 | | | 2 | | 14 |
| 3 | 1 | 1 | 1 | 6 | | | 3 | 3 | 2 | 2 | 1 | 2 | | | | 18 | | 16 |
| 1 | | | | 1 | 1 | | | | | 1 | 1 | | | | | 1 | | 17 |
| | | | | | | | | . 1 | | | | 1 | | | | 3 | | 17a |
| | 1 | 1 | 2 | 6 | 1 | 2 | 3 | 3 | 12 | 1 | 2 | - 3 | 1 | | | 1 | | 18 |
| 5 | 4 | 5 | 2 | 9 | 5 | 11 | 11 | 12 | 8 | 8 | 5 | 7 | 4 | 1 | | 21 | | 19 |
| 1 | 1 | 1 | | | 2 | 1 | 1 | | 2 | | 1 | | 1 | | | 1 | | 20 |
| | | | | | | | | 1 | | | | | | | | | | 21 |
| 9 | 3 | 3 | 3 | 4 | 3 | 3 | 6 | 12 | 6 | 5 | 3 | 6 | | 2 | | 10 | | 22 |
| | 2 | 2 | 4 | 2 | 3 | 1 | . 4 | 1 | 1 | 2 | 5 | 6 • | , . | | | 5 | 1 | 22a |
| | 1 | | | | | 1 | | | | | | | | | | 2 | | 23 |
| | | | | 1 | | | | 1 | | : | | | | | | | | 24 |
| 1 | 2 | 1 | | 1 | | | | 4 | 1 | | | 1 | . 1 | | | 3 | | 25 |
| | | | | | 1 | | | . 1, | | | 1 | | | | | 6 | | 26 |
| • • • • • | 1 | | | | 1 | | | 2 | 1 | | | . 1 | | | | . 2 | • • • | 27 28 |
| 6 | 1 | 3 | 1 | 2 | 3 | 1 | 2 | 4 | 2 | 4 | | 4 | | | | 4 | | 29 |
| | | | 1 | 1 | | | 2 | 2 | 1 | - | 1 | | | | | 1 | | 30 |
| | | | | | | | | | | 1 | 1 | 1 | | | | 2 | | 31 |
| | | | | | | | | 1 | | 27 | | | 2 | | | 2 | | 32 |
| 2 | | 4 | | 2 | 1 | 3 | 5 | 2 | 2 | 6 | 4 | 5 | -1 | | | 7 | 1 | 33 |
| | | | 1 | | | | 1 | | | | | | | | | | | 34 |
| 3 | 2 | 1 | 2 | | 4 | 2 | 1 | 5 | | 1 | 3 | 2 | 9 | | 2 | 10 | 1 | 35 |
| | | | | | | | . 1 | . 1 | | | 1 | | | | | 4 | | 36 |
| 5 | 1 | 4 | 5 | 4 | 10 | 6 | 7 | 11 | 10 | 5 | 9 | 8 | 3 | 1 | | 27 | 1 | 37 |
| | | | | | | | | | | | 1 | | 1 | | | | | 38 |
| 3 | 7 | 9 | 5 | 3 | 6 | 7 | 10 | 12 | 5 | 8 | 11 | 13 | 4 | 1 | | 25 | 1 | |

VITAL STATISTICS. January, 1913, Infant Mortality.

| Class | | | UARY | | | | ek. | - | | Month. | | | | | | A G | ED EEKS OVER. | |
|--|--------------------------------|-------|----------------------|--------------|------------|------------|-------------------|-------------|-------------|--------------|--------------|---------|-----------|-----------|------------|--------|---------------------|--------------|
| at | Causes of Death. | Un | TALS, DER EAR. | Under 1 Day. | to 2 Days. | to 3 Days. | 3 Days to 1 Week. | to 2 Weeks. | to 3 Weeks. | Weeks to I M | to 2 Months. | Months. | 6 Months. | 9 Months. | 12 Months. | Fed. | | idents. |
| Detailed Li Number. | | 1913. | 1912. | Under | 1 to 2 | 2 to 3 | 3 Days | 1 to 2 | 2 to 3 | 3 Weel | 1 to 2 | 2 to 3 | 3 to 6 | 6 to 9 | 9 to 12 | Breast | Bottle Fed. | Nonresidents |
| | Total | 185 | 162 | 23 | 13 | 3 | 17 | 13 | 5 | 16 | 16 | 9 | 34 | 21 | 15 | 47 | 69 | 25 |
| | Male | 100 | 91 | 11 | 8 | 2 | 12 | 4 | 3 | 11 | 13 | 6 | 14 | 9 | 7 | 29 | 34 | 11 |
| | Female | 85 | 71 | 12 | 5 | 1 | 5 | . 9 | 2 | 5 | 3 | 3 | 20 | 12 | 8 | 18 | 35 | 14 |
| | White | 180 | 162 | 20 | 13 | 3 | 17 | 12 | 5 | 16 | 16 | 9 | 34 | 20 | 15 | 47 | 69 | 25 |
| | Colored | 5 | | 3 | | | | 1 | | | | | | 1 | | | 1 | |
| 1 | Typhoid fever | | | | | | | | | | | | | | | | | |
| 5 | Smallpox | | | | | | | | | | | | | | | | | |
| 6 | Measles | 4 | 1 | | | | | | | | | 1 | 1 | 1 | 1 | 1 | 3 | |
| 7 | Scarlet fever | | | | | | | | | | | | | | | | | |
| 8 | Whooping cough | 5 | 4 | | | | | | | | | 1 | 2 | 2 | | 3 | 2 | |
| 9 | Diphtheria and croup | : | 2 | | | | | | | | | | | | | | | |
| 10 | Influenza | 1 | | | | | | | | | | | 1 | | | 1 | | |
| 14 | Dysentery | | | | | | | | | | | | | | | | | |
| 18 | Erysipelas | 2 | . 3 | | | | | | | 1 | 1 | | | | | 2 | | |
| 19 | Other epidemic diseases | | | | | | | | | | | | | | | | | |
| 20 | Pus-infection and septicemia, | 2 | : | | | | 1 | | | | 1 | | | | | | 1 | |
| 24 | Tetanus | | | | | | | | | | | | | | | | | |
| 28 | Tuberculosis of the lungs | 1 | | | | | | | | | | | î | 1 | | | . 1 | |
| 29 | Acute miliary tuberculosis | | | | | | | | : | | | | | | | | | |
| 30 | Tuberculous meningitis | 4 | 3 | | | | | | | | | | 1 | 3 | | 1 | 3 | 2 |
| $\begin{vmatrix} 31 \\ 35 \end{vmatrix}$ | Other forms of tuberculosis | | | | | | | | | | | | | | | | | |
| 36 | Rickets | | | | | | | | | | | | | | | | | |
| 37 | Syphilis | 8 | 3 | | | | | | | 3 | | | 4 | | 1 | | - 8 | 3 |
| 38 | Gonococcus infection | | | | | | | | | | | | | | | | | |
| 61 | Simple meningitis | | 1 | | | | | | | | | | | | | | | |
| 61a | Cerebro-spinal fever | 2 | | | | | | | | | | | 1 | | 1 | | 2 | 1 |
| 63a | Acute poliomyelitis | | | | | | | | | | | | | | | | | |
| 71 | Convulsions | | 1 | | | | | | | | | | | | | | | |
| 76 | Diseases of the ears | | | | | | | | | | | | | | | | | |
| 79 | Organic diseases of the heart, | | | | | | | | | | | | | | , | | | |
| 89 | Acute bronchitis | 7 | 6 | | | | | | 1 | | 2 | 2 | | 2 | | 3 | 4 | |
| 91 | Broncho-pneumonia | 29 | 19 | | | | | . 2 | 1 | 2 | 3 | | 10 | 6 | 5 | 15 | 12 | 1 |
| 92 | Pneumonia | 18 | 14 | | | | 1 | 1 | 2 | 2 | 1 | 1 | 5 | 2 | 3 | 10 | . 6 | 3 |
| 93 | Pleurisy | | | | | , | | | | | | | | | | | | |
| 103 | Other diseases of stomach | | 5 | | | | | | | | | | | | | | | |
| 104 | Diarrhea and enteritis | 18 | 12 | | | | | 1 | | 1 | 3 | 3 | 6 | 2 | 2 | 6 | 11 | 3 |
| 108 | Appendicitis and typhlitis | | | | | | | | | | | | | | | | | |

VITAL STATISTICS.

January, 1913, Infant Mortality.— Concluded.

| ist Class | Causes of Death. | Uni | JARY ALS, DER EAR. | Day. | σž | 502 | I Week. | ks. | ks. | I Month. | Months. | Months. | Months, | Months. | Months. | 2 W AND | EEKS OVER. | lts. |
|--------------------------------|---|-------|-----------------------------|-----------|--------------|--------------|-----------|---------------|---------------|--------------|------------|------------|------------|------------|------------|-------------|---------------|---------------|
| Detailed List Class Number. | CAUSES OF DEATH. | 1913. | 1912. | Under 1 D | I to 2 Days. | 2 to 3 Days. | 3 Days to | 1 to 2 Weeks. | 2 to 3 Weeks. | 3 Weeks to 1 | 1 to 2 Mor | 2 to 3 Moz | 3 to 6 Mor | 6 to 9 Mor | 9 to 12 Mc | Breast Fed. | Bottle Fed. | Nonresidents. |
| 109 | Hérnias, intestinal obstruction, | | 1 | | | | | | | | | | | | | | | |
| 117 | Simple peritonitis | | | | | | | | | | | | | | | | | |
| 119 | Acute nephritis | 1 | 1 | | | | | | | | | | 1 | | | 1 | | |
| 143 | Furuncle | | | | | | | | | | | | | | | | | |
| 144 | Acute abscess | | | | | | | | | | | | | | | | | |
| 145 | Other diseases of skin, etc | | | | | | | | | | | | | | | | | |
| 150a | Hydrocephalus | 1. | ١ | | | | | | | | | | | | 1 | 1 | | |
| ь | Congenital malformations of | 11 | 10 | 1 | 2 | 1 | 4 | | 1 | 1 | 1 | | | | | | 3 | 2 |
| c | heart. Other malformations | 4 | 3 | | | 1 | | 1 | | | 1 | | 1 | | | | . 2 | |
| 151a | Premature birth | 35 | 32 | 12 | 8 | 1 | 4 | 5 | , | 4 | 1 | | | | | 1 | 4 | 4 |
| ь | Congenital debility | 10 | 12 | | 1 | | 3 | 1 | | 1 | 1 | 1 | | 1 | 1 | 2 | 3 | 1 |
| 152a | Injuries at birth | 8 | 12 | 4 | 1 | | 3 | | | | | | | | | | | 1 |
| ь | Other causes peculiar to early | 10 | } 5 | 5 | 1 | | 1 | 1 | | 1 | 1 | | | | | | 2 | 4 |
| 167 | infancy. Burns (conflagrations ex- | | | | | | | | | | | | | | | | | |
| 168 | cepted). Absorption of deleterious gases, | 1 | 1 | 1 | | | | | | | | | | | | | | |
| 172 | Traumatism by fall | | | | | | | | | | | | | | | | | |
| 182 184 | Homicide | | | | | | | | | | | | | | | | | |
| 187 | Ill-defined diseases | . 1 | | | | | | 1 | | | | | | | | | | |
| 200, | Other causes | 2 | 11 | | | | | | | | | | 1 | 1 | | | 2 | |
| | Breast fed * | 47 | 37 | | | | | | 3 | 6 | 6 | 3 | 15 | 6 | 8 | 47 | | 3 |
| | Bottle fed * | 69 | 63 | | | | | | 2 | 10 | 10 | 6 | 19 | 15 | 7 | | 69 | 13 |
| | Nonresidents | 25 | 15 | 5 | | | 3 | 1 | | 4 | 2 | 1 | 5 | 3 | 1 | 3 | 13 | 25 |

^{*} Aged two weeks and over.

Additional Deaths for Other Months.

- Sept., 1912 .- 1 male; other forms of mental alienation; white; aged 42 years; single; residence Ward 3; birth-Sept., 1912.—1 male; defer for the common place unknown; birthplace of mother unknown.
 Oct., 1912.—1 male; alcoholism; white; aged 36; married; residence Ward 7; born in Ireland; mother born

 - 1 male; prematurity; white; aged 1 day minus; single; residence Ward 7; born in United States; mother
 - 1 male; prematurity; white; aged 1 day minus; single; residence Ward 17; born in United States; mother
 - 1 male; suicide by asphyxia; white; aged 84 years; widower; residence Ward 7; born in United States;
- birthplace of mother unknown.

 Nov., 1912.—1 male; accidental drowning; white; aged 30 years; condition unknown; residence unknown; birthplace unknown; birthplace of mother unknown.
- Dec., 1912.—1 male; pneumonia; white; aged 52 years; single; residence Ward 5; born in Scandinavia; birth-place of mother unknown.

 1 male; prematurity; white; aged 1 day minus; single; residence Ward 12; born in United States; mother

 - 1 male; prematurity; white; aged 1 day minus; single; residence Ward 10; born in United States; mother
 - 1 male; absorption of deleterious gases; white; aged 45 years; condition unknown; birthplace unknown; birthplace of mother unknown.
 - 1 female; burns (conflagration excepted); white; aged 42 years; married; residence Ward 7; born in Ireland; birthplace of mother unknown.
 - 1 female; alcoholism; white; aged 55 years; widow; residence Ward 20; birthplace unknown; birthplace of mother unknown.

DIVISION OF COMMUNICABLE DISEASES, JANUARY, 1913.

| | Media | cal | Insp | ecto | rs. | | | | |
|------------------------------------|---------|-----|--------|------|-----|---|---|---|-------------------|
| New cases visited: | | | | | | | | | |
| Diphtheria: | | | | | | | | | |
| a. Isolation . | | | | | | | | | 115 |
| b. Diagnosis | | | | | | | | | 9 |
| Scarlet fever: | | | | | | | | | |
| a. Isolation . | | | | | | | | | 192 |
| b. Diagnosis | | | | | | | | | 21 |
| c. Release . | | | | | | | | | 76 |
| Typhcid fever . | | | | | | | | | 18 |
| Variola | | | | | | | | | 1 |
| Measles: | | | | | | | | | |
| a. Isolation . | | | | | | | | | 23 |
| b. Diagnosis | | | | | | | | | 6 |
| Epidemic cerebro | -spinal | mei | ningit | tis | | | | | 2 |
| Varicella: | | | | | | | | | |
| a. Isolation : | | | | | | | | | 0 |
| b. Diagnosis | | | | | | | | | 16 |
| Ophthalmia neona | atorum | ١. | | | | | | | 6 |
| | | | ** | | | | | | 35 |
| Tuberculosis . Deaths investigated | | | | | | | | | 16 |
| | | | | | | | | | |
| New cases visited: | | Nu | irses | • | | | | | |
| Diphtheria | | | | | | | | | 175 |
| Scarlet fever . | | | | | | | • | • | $\frac{175}{202}$ |
| Typhoid fever . | | | | | | | • | • | $\frac{202}{22}$ |
| | | | | | ٠ | | | • | $\frac{22}{125}$ |
| Whooping cough Ophthalmia neon | | | | | | | • | • | 120 |
| - | | | | | | | | | 63 |
| Mumps | | | | | | | ٠ | • | |
| Measles | • | • | • | • | • | • | ٠ | • | 616 |
| Varicella | | | | | | | • | | 110 |
| Malaria | ٠., | | • | ٠ | • : | | ٠ | • | 1 |
| Cerebro-spinal mo | eningit | 18 | • | • | ٠ | ٠ | • | ٠ | 2 |
| Old cases visited: | | | | | | | | | 010 |
| Diphtheria | ٠ | | ٠ | | | | ٠ | | 218 |
| | | | | | | | • | | 744 |
| Typhoid fever . | • | • | | .• | • | | ٠ | • | 35 |
| Poliomyelitis . | | | | | | | | | 1 |

| Whooping cough | | | | | | | | | 98 |
|------------------------|-------|-------|------|------|------|---|---|---|--------|
| Ophthalmia neonat | | | | | | | | | 290 |
| Mumps | | | | | | | | | 7 |
| Measles | | | | | | | | | 546 |
| Varicella | - | | | | | | | | 107 |
| Cerebro-spinal men | ingit | tis | | | | | | | 1 |
| Release cultures taker | | | | | | | | | 96 |
| Vaccinations performe | | | | | | | | | 5 |
| Certificates granted | | | | | | | | | 7 |
| | | | | | | | | | |
| | For | cible | Re | mov | als. | | | | |
| Tuberculosis . | | | | | | | | | 1 |
| Diphtheria | | | | | | | | | . 2 |
| Scarlet fever . | | | | | | | | | 2 |
| | | | e | • | | | | | |
| T): 1.1. ' | | Disin | rect | ions | • | | | | 1 = 0 |
| Diphtheria | ٠ | • | ٠ | ٠ | ٠ | ٠ | • | ٠ | 176 |
| | | | | | • | | | | 163 |
| Phthisis | | | | | | | | | 192 |
| Small pox | | | | | | | | | 1 |
| Infected bedding, e | | | | | | | | | 1 lot |
| Infected books, etc. | | | | | | | | | 4 lots |
| Infected clothing, e | | | | | | | | | |
| Infected carriages | | | | | | | | | 3 |

| Wards. | Anterior Poliomyelitis. | Actinomycosis. | Asiatic Cholera. | Bubonic Plague. | Cerebro-spinal Meningitis. | Diphtheria. | Glanders. | Leprosy. | Malaria. | Malignant Pustule. | Measles. | Mumps. | Ophthalmia Neonatorum. |
|-------------------------------|----------------------------|----------------|------------------|-----------------|-------------------------------|-------------|-----------|----------|----------|-----------------------|----------|--------|---------------------------|
| 1 | | | | | 1 | 10 | | | | | 3 | | 2 |
| 2 | | | | | | 8 | | | | | 3 | 7 | 5 |
| 3 | | | | | | 3 | | | | | 3 | 2 | 4 |
| 4 | | | | | | 4 | | | | | 12 | 3 | 3 |
| 5 | | | | | | .6 | | | | | 3 | 2 | |
| 6., | | | | | | 17 | | | | | 25 | 28 | 14 |
| 7 | | | | | | 4 | | | | | 28 | | 5 |
| 8 | | | | | | 13 | | | | 1 | 73 | 4 | 9 |
| 9 | | | | | | 10 | | | | | 42 | | 10 |
| 10 | | | | | | 3 | | | | | 13 | | 2 |
| 11 | | | | | | 4 | | | | | 14 | 7 | 4 |
| 12 | | | | | | 12 | | | | | 37 | 1 | 5 |
| 13 | | | | | | . 4 | | | | | 22 | 3 | 10 |
| 14 | | | | | | 6 | | | | | 7 | 3 | 6 |
| 15 | | | | | | . 1 | | | | | 16 | | 4 |
| 16 | | | | | | 6 | | | | | 30 | 2 | 2 |
| 17 | | | | | | 5 | | | | | 70 | 1 | 3 |
| 18 | | | | | | -11 | | | | | 58 | | 4 |
| 19 | | | | | | 12 | | | | | 58 | 1 | 5. |
| 20 | | | | | 1 | 11 | | | | | 51 | .1 | 8 |
| 21 | | | | | | 8 | , | | | | 39 | 1 | 4 |
| 22 | | | | | | 8 | | | | | 18 | 4 | 2 |
| 23 | | | | | | 2 | | | | | 18 | 3 | 1 |
| 24 | | | | | | 10 | | | | | 29 | 3 | , 2 |
| 25 | | | | | | 2 | | | 1 | | 4 | 1 | 2 |
| 26 | | | | | | 2 | | | | | 2 | | 1 |
| Total | | | | | 2 | 182 | | | 1 | 1 | 678 | 77 | 117 |
| Unknown | | | | | | | | | | | 2 | | |
| Nonresidents | | | | | 3 | .15 | | | | | 9 | | |
| | | | | | | | | | | | | | |
| Grand total | | | | | 5 | 197 | | | 1 | 1 | 689 | 77 | 117 |
| Corresponding month last year | | | | | 3 | 183 | | | 1 | | 517 | 17 | 209 |

Included in the Nonresidents were the following cases, brought to

COMMUNICABLE DISEASES.

Cases Reported.

January, 1913.

| Scarlet Fever. | Smallpox. | Tetanus. | Trachoma. | Trichinosis. | Tuberculosis (Pulmonary and Miliary). | Tuberculosis (Other Forms). | Typhoid Fever. | Typhus Fever. | Varicella. | Whooping Cough. | Yellow Fever. | Wards, |
|----------------|-----------|----------|-----------|--------------|---|-----------------------------|----------------|---------------|------------|-----------------|---------------|--------------------------------|
| 8 | | | | | 6 | 1 | 1 | | 25 | 12 | | |
| 8 | 1 | | | | 13 | 1 | 1 | | . 8 | -5 | | |
| 3 | | | | | 5 | | i | | -3- | 2 | | |
| 8 | , | | | | 9 | | | | 6 | | | 4 |
| | | | | | . 6 | | | | 2 | | | 5 |
| 5 | | | | | 14 | 1 | 3 | | 7 | 6 | | 6 |
| | | | | | 8 | | . 1 | | 1 | 2 | | 7 |
| 5 | | | 1 | | 16 | 2 | | | 7 | 4 | | 8 |
| 6 | | | | ' | 23 | 1 | | | 13 | 8 | | 9 |
| 6 | | | | | 10 | 1 | 2 | | 6 | | | 10 |
| 6 | | | | | 4 | | | | 23 | | | 11 |
| 7 | | | 1 | | 16 | | 2 | | 4 | 9 | | 12 |
| . 8 | | | | | 10 | 1 | 1 | | 4 | 14 | | |
| 5 | | | 1 | | 6 | 1 | 1 | | . 3 | 18 | | 14 |
| 6 | | | | , | 4 | 2 | 1 | | 10 | 23 | | 15 |
| . 7 | | | | | 9 | 2 | 2 | | 4 | 8 | | 16 |
| 17 | | | : | | 11 | | | | 11 | 13 | | 17 |
| 5 | | | | | 6 | , | | | 4 | | | 18 |
| . 5 | | | | | 13 | 2 | 1 | | 6 | 7 | | 19 |
| 26 | | | | | 2 | | | | 28 | 23 | | 20 |
| 13 | | | | | 8 | | 1 | | 12 | 1 | | 21 |
| 6 | | | | | 8 | 1 | | | 4 | | | 22 |
| 21 | | | | | 6 | 2 | 1 | | 7 | 2 | | 23 |
| -, 10 | | | | *,* * * | 17 | 1 | 3 | | 13 | 8 | | 24 |
| 16 | | | | | 4 | 1 | | | 10 | 18 | | 25 |
| 3 | | | | | 2 | | | | 5 | 2 | | 26 |
| 210 | 1 | | 3 | | 236 | 20 | 22 | , | 226 | 185 | , . | Total |
| ••••• | | | | | 1 | | | | | | | Unknown |
| 19 | | | 2 | | 24 | 3 | | | | | | Nonresidents |
| 229 | 1 | | 5 | | 260 | 23 | 22 | | 226 | 185 | | Grand total |
| 127 | 3 | 1 | 6 | | 220 | 14 | 23 | | 226 | 123 | | Corresponding month last year. |

Boston for treatment: Measles 5; scarlet fever, 9; diphtheria, 14.

| DIVISION OF CHILD HYGIENE.—JANUARY, 1913. |
|---|
| 1. Medical Inspection of Schools. |
| Number inspections made |
| Number visits made to homes |
| There were 2,229 pupils excluded from schools during this |
| month on account of contagious diseases, as follows: |
| Diphtheria 7 Syphilis 1 Scarlet fever 5 Pediculosis 1,176 |
| Measles |
| Chicken pox |
| Whooping cough 7 Ringworm 48 Mumps 32 Scabies 52 |
| Pulmonary tuberculosis 5 Impetigo 106 |
| Acute tonsilitis |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| There were 19,937 cases of noncontagious disease found |
| during the month, subdivided as follows: |
| Diseases of oral and respiratory tract |
| Diseases of ear |
| Diseases of oral and respiratory tract 6,856 Diseases of eye 594 Diseases of ear 176 Diseases of skin 755 Dental caries 5,213 Miscellaneous diseases 6,343 |
| Miscellaneous diseases 6,343 |
| 2. Physical Examination of Licensed Minors. |
| There were 412 children between the ages of 14 and 16 |
| years examined during the month. One hundred and twenty- |
| nine were found to be without defects and 283 with defects as follows: |
| Hearing 2 Cervical glands 25 Eyesight 45 Orthopedic defects 27 Nasal breathing 19 Cardiac disease 12 Hypertrophied tonsils 31 Skin 1 Defective teeth 161 Miscellaneous 46 |
| Eyesight |
| Hypertrophied tonsils . 31 Skin |
| Certificates were refused at this time to thirteen applicants. |
| • |
| 3. Pre=Natal and Post=Natal Work. |
| Pre=Natal |
| Pre-Natal. Number cases |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |

| Orthopedic defects | | litions Noted. | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Ophthalmia | | | | | | | | | | | | | | |
| Skin disease | | | | | | | | | | | | | | |
| Chicken pox 2 Chicken pox 2 Cervical glands 4 Cervical | O parameter v. | | | | | | | | | | | | | |
| BACTERIOLOGICAL LABORATORY. Positive for diagnosis 142 Positive for diagnosis 1,40 Positive 47 Positive 48 | | I a de la constanta de la cons | | | | | | | | | | | | |
| BACTERIOLOGICAL LABORATORY. | Cervical abscess | Cnicken pox 2 | | | | | | | | | | | | |
| Positive for diagnosis | Cervical glands 4, | | | | | | | | | | | | | |
| Positive for diagnosis | BACTERIOLOGICA | L LABORATORY. | | | | | | | | | | | | |
| Positive for release | | | | | | | | | | | | | | |
| Negative for diagnosis 1,481 | Positive for release 60 | | | | | | | | | | | | | |
| Positive. S4 | Negative for diagnosis. 1.481 | Unsatisfactory 0— 59 | | | | | | | | | | | | |
| Positive. S4 | "No growth" cultures. 13—1,895 | *Positive 9 | | | | | | | | | | | | |
| Negative | TUBERCULOSIS: | Negative 34 | | | | | | | | | | | | |
| Typiolic | Negative 381 | Bacteriological Milk | | | | | | | | | | | | |
| Positive | Unsatisfactory 0— 465 | Examinations | | | | | | | | | | | | |
| Atypical | Positive 13 | Total 3,464 3,464 | | | | | | | | | | | | |
| Positive | | Longevity of tubercle bacilli in cow feces. | | | | | | | | | | | | |
| Positive | Unsatisfactory 3— 120 | Bacterial examination of water. | | | | | | | | | | | | |
| Negative | Positive 52 | | | | | | | | | | | | | |
| NSPECTION OF MILK, VINEGAR, ETC. Examination as to Statute Requirements. | Negative 164 | | | | | | | | | | | | | |
| INSPECTION OF MILK, VINEGAR, ETC. | | B., paratyphoid, typhoid urines, anthrax, | | | | | | | | | | | | |
| Examination as to Statute Requirements. 708 | smears for T. B., leprosy-tissues and smear. | | | | | | | | | | | | | |
| Samples examined, milk from stores. 708 | INSPECTION OF MI | LK, VINEGAR, ETC. | | | | | | | | | | | | |
| # milk from wagons. 674 # milk for bacteriological examination 660 # milk for bacteriological examination 660 # wivenegar. 753 # wounders and cheese. 191 # condensed milk. 22,339 Total samples. 2339 INSPECTED AT BRIGHTON ABATTOIR. | | | | | | | | | | | | | | |
| milk brought in by citizens. 31 | Samples examined, milk from stores | 708 | | | | | | | | | | | | |
| # " vinegar. 773 # " butter and cheese. 1911 # " condensed milk. 2 Total samples. 2,339 INSPECTED AT BRIGHTON ABATTOIR. | " " milk brought in by citizer | ıs 31 | | | | | | | | | | | | |
| Total samples | " " milk for bacteriological ex | amination | | | | | | | | | | | | |
| Total samples | # " vinegar | | | | | | | | | | | | | |
| INSPECTED AT BRIGHTON ABATTOIR. | " condensed milk | | | | | | | | | | | | | |
| Cattle inspected | | *************************************** | | | | | | | | | | | | |
| Calves inspected | | *************************************** | | | | | | | | | | | | |
| Sheep inspected. 2 | Total samples | 2,339 | | | | | | | | | | | | |
| New reports | Total samples | 2,339 GHTON ABATTOIR. Cattle condemned (2 and parts), 2,052 lbs. | | | | | | | | | | | | |
| Meats | Total samples. INSPECTED AT BR Cattle inspected. 295 Calves inspected 628 Sheep inspected. 2 | GHTON ABATTOIR. Cattle condemned (2 and parts), 2,052 lbs. Calves condemned (5) | | | | | | | | | | | | |
| Veal (immature) 786 lbs. Vegetables (decayed) 5 bush. Mutton (tainted) 5 lbs. 6 lbs. | Total samples. | GHTON ABATTOIR. Cattle condemned (2 and parts), 2,052 lbs. Calves condemned (5) | | | | | | | | | | | | |
| Mutton (tainted) 5 lbs. Beef (tainted) 943 lbs. Pork (tainted) 56 lbs. Poultry (tainted) 15 lbs. Veal (tainted) 15 lbs. Deer meat (tainted) 43 lbs. SANITARY INSPECTION DIVISION. New reports 9,920 New tenement house reports 750 Nuisances reported 4,947 Legal notices 376 Court cases 7 Fines 7 Fines \$130 Tenements vacated 5 Milk applications approved 113 Stable permit granted 3 Stable permits withheld 3 Stable permit refused 1 Dump permits 18 Dump permit revoked 1 Vessels inspected at quarantine 63 | Total samples. INSPECTED AT BR Cattle inspected. 295 Calves inspected. 628 Sheep inspected. 2 Swine inspected. 7,138 | Cattle condemned (2 and parts), 2,052 lbs. Catves condemned (5) | | | | | | | | | | | | |
| Beef (tainted) | INSPECTED AT BR Cattle inspected 295 Calves inspected 628 Sheep inspected 2 Swine inspected 7,138 INSPECTION OF PROVISION Meats. | GHTON ABATTOIR. Cattle condemned (2 and parts), 2,052 lbs. Calves condemned (5) 165 lbs. Sheep condemned 165 lbs. Swine condemned (5 and parts), 3,453 lbs. S.— ARTICLES CONDEMNED. | | | | | | | | | | | | |
| Poultry (tainted) | Total samples. INSPECTED AT BR Cattle inspected. 295 Calves inspected 628 Sheep inspected. 2 Swine inspected. 7,138 INSPECTION OF PROVISION Meats. Veal (immature). 786 lbs. | GHTON ABATTOIR. Cattle condemned (2 and parts), 2,052 lbs. Calves condemned (5) | | | | | | | | | | | | |
| Veal (tainted) | Total samples. INSPECTED AT BR | GHTON ABATTOIR. Cattle condemned (2 and parts), 2,052 lbs. Calves condemned (5) | | | | | | | | | | | | |
| SANITARY INSPECTION DIVISION. 3,244 Reinspections. 9,920 New tenement house reports. 750 Nuisances reported. 4,947 Legal notices. 376 Court cases 7 Fines. 7 7 7 7 7 7 7 7 7 | Total samples. INSPECTED AT BR | GHTON ABATTOIR. Cattle condemned (2 and parts), 2,052 lbs. Calves condemned (5) | | | | | | | | | | | | |
| New reports. 3,244 Reinspections. 9,920 New tenement house reports. 750 Nuisances reported. 4,947 Legal notices. 376 Court cases 7 Fines. \$130 Tenements vacated. 5 Milk applications approved 113 Stable permit granted. 3 Stable permit withheld 3 Stable permit refused 1 Dump permits 18 Dump permit revoked. 1 Vessels inspected at quarantine 63 | Total samples. INSPECTED AT BR | GHTON ABATTOIR. Cattle condemned (2 and parts), 2,052 lbs. Calves condemned (5) | | | | | | | | | | | | |
| Reinspections. 9,920 New tenement house reports. 750 Nuisances reported. 4,947 Legal notices. 376 Court cases. 7 Fines. \$130 Tenements vacated. 5 Milk applications approved 113 Stable permit granted. 3 Stable permits withheld 3 Stable permit refused 1 Dump permits. 18 Dump permit revoked. 1 Vessels inspected at quarantine 63 | Total samples | Cattle condemned (2 and parts), 2,052 lbs. Calves condemned (5) | | | | | | | | | | | | |
| New tenement house reports. 750 Nuisances reported. 4,947 Legal notices. 376 Court cases. 7 Fines. \$130 Tenements vacated. 5 Milk applications approved. 113 Stable permit granted. 3 Stable permits withheld. 3 Stable hearings. 7 Stable permit refused. 1 Dump permits. 18 Dump permit revoked. 1 Vessels inspected at quarantine. 63 | Total samples. INSPECTED AT BR | GHTON ABATTOIR. Cattle condemned (2 and parts), 2,052 lbs. Calves condemned (5) 165 lbs. Sheep condemned (5 and parts), 3,453 lbs. S.— ARTICLES CONDEMNED. Miscellaneous. Vegetables (decayed) 5 bush. | | | | | | | | | | | | |
| Legal notices 376 Court cases 7 Fines \$130 Tenements vacated 5 Milk applications approved 113 Stable permit granted 3 Stable permits withheld 3 Stable hearings 7 Stable permit refused 1 Dump permits 18 Dump permit revoked 1 Vessels inspected at quarantine 63 | Total samples | GHTON ABATTOIR. Cattle condemned (2 and parts), 2,052 lbs. Calves condemned (5) | | | | | | | | | | | | |
| Fines \$130 Tenements vacated 5 Milk applications approved 113 Stable permit granted 3 Stable permits withheld 3 Stable hearings 7 Stable permit refused 1 Dump permits 18 Dump permit revoked 1 Vessels inspected at quarantine 63 | Total samples. INSPECTED AT BR | Cattle condemned (2 and parts), 2,052 lbs. Calves condemned (5) | | | | | | | | | | | | |
| Tenements vacated | Total samples. INSPECTED AT BR | Cattle condemned (2 and parts), 2,052 lbs. Cattle condemned (5) | | | | | | | | | | | | |
| Stable permit granted. 3 3 5 5 5 5 5 5 5 5 | Total samples. INSPECTED AT BR Cattle inspected 295 Calves inspected 628 Sheep inspected 7,138 INSPECTION OF PROVISION Meats. Veal (immature) 786 lbs. Mutton (tainted) 5 lbs. Beef (tainted) 943 lbs. Pork (tainted) 56 lbs. Poultry (tainted) 478 lbs. Veal (tainted) 43 lbs. SANITARY INSPE New reports. Reinspections. New tenement house reports. Nuisances reported. Legal notices. Court cases. | Cattle condemned (2 and parts), 2,052 lbs. Calves condemned (5) | | | | | | | | | | | | |
| Dump permits. 18 Dump permit revoked. 1 QUARANTINE. Vessels inspected at quarantine. 63 | Total samples. INSPECTED AT BR | Cattle condemned (2 and parts), 2,052 lbs. Cattle condemned (5) | | | | | | | | | | | | |
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| Vessels inspected at quarantine | Total samples. INSPECTED AT BR Cattle inspected 295 Calves inspected 628 Sheep inspected 628 Sheep inspected 7,138 INSPECTION OF PROVISION Meats. Veal (immature) 786 lbs. Mutton (tainted) 5 lbs. Beef (tainted) 943 lbs. Pork (tainted) 478 lbs. Veal (iainted) 478 lbs. Veal (tainted) 43 lbs. SANITARY INSPE New reports. Reinspections. New tenement house reports. Nuisances reported. Legal notices. Court cases Fines. Tenements vacated. Milk applications approved Stable permits withheld Stable hearings. Stable permit fused. | Cattle condemned (2 and parts), 2,052 lbs. Calves condemned (5) | | | | | | | | | | | | |
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| | Total samples. INSPECTED AT BR Cattle inspected. 295 Calves inspected. 628 Sheep inspected. 2 Swine inspected. 7,138 INSPECTION OF PROVISION Meats. Veal (immature). 786 lbs. Mutton (tainted). 5 lbs. Beef (tainted). 943 lbs. Pork (tainted). 478 lbs. Veal (inted). 15 lbs. Deer meat (tainted). 43 lbs. SANITARY INSPE New reports. Reinspections. New tenement house reports. Nuisances reported. Legal notices. Court cases Fines Tenements vacated. Milk applications approved Stable permits withheld Stable hearings. Stable permits. Dump permits. Dump permit revoked. | Cattle condemned (2 and parts), 2,052 lbs. Calves condemned (5) | | | | | | | | | | | | |

MONTHLY METEOROLOGICAL SUMMARY.

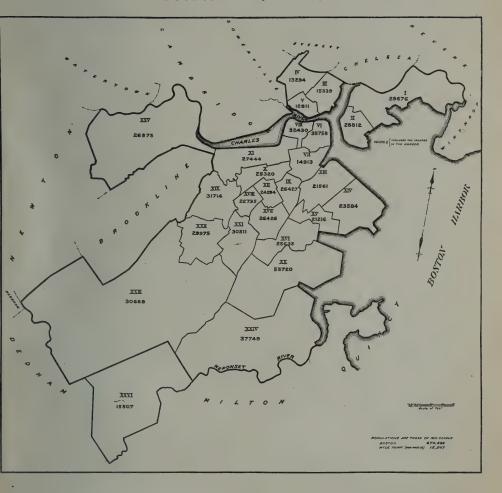
Taken at Weather Bureau, Boston, January, 1913.

| ^ | _ : | MPERATU DEGREES AHRENHE | 1 | midity. | itation. | Sun- | | Wind. | |
|--------|----------|-------------------------------|-------|-------------------|---------------------|------------------------|-----------------------------------|----------------------------------|--------------------------|
| Дач. | Maximum. | Minimum. | Mean. | Relative Humidity | Daily Precipitation | Actual Hours Sunshine. | Average Hourly Velocity. (Miles.) | Maximum Velocity. (Miles.) | Prevailing Direction. |
| 1 | 52 | . 37 | 44 | 68 | .01 | 7.7 | 10.5 | 24 | w. |
| 2 | 51 | 34 | 42 | 76 | 0 | 7.4 | 6.8 | 16 | s. w. |
| 3 | 62 | 35 | 48 | . 88 | .55 | 0 | 20.0 | 44 | S., S. W. |
| 4 | 42 | 34 | 38 | 52 | T | 6.9 | 27.7 | 48 | w. |
| 5 | 41. | 32 | 36 | 50 | .0 | 9.2 | 10.6 | 20 | w. |
| 6 | 62 | 34 | 48 | 72 | т | 1.9 | 9.2 | 22 | s. w. |
| 7 | 55 | 32 | 44 | 90 | .15 | 0 0 | 15.5 | 31 | N. E. |
| 8 | 39 | 17 | 28 | 83 | .87 | 0 | 12.2 | 36 | N. W. |
| 9 | 24 | 13 | 18 | 46 | 0 | 9.3 | 13.5 | 27 | N.W. |
| 10 | 43 | 22 | 32 | 78 | 0 | 7.1 | 13.2 | 29 | s. w. |
| 11 | 49 | -38 | 44 | 89 | .12 | .8 | 9.0 | 15 | s. w. |
| 12 | 61 | 28 | 44 | 72 | .07 | 0 . | 19.2 | 36 | s. w. |
| 13 | 28 | 15 | 22 | 53 | 0 | 6.5 | 9.9 | 21 | N. |
| 14 | 32 | 20 | 26 | 73 | -0 | 7.4 | 7.2 | 12 | N.W. |
| 15 | 44 | 29 | 36 | 76 | T | 2.8 | 13.5 | 20 | s. w. |
| 16 | 50 | 42 | 46 | 76 | .0 | 0 | 9.9 | 20 | w. |
| 17 | 59 | 41 | 50 | 90 | .10 | 2.3 | 10.2 | 22 | s. w. |
| 18 | 56 | 46 | 51 | 88 | T | -0 | 12.4 | 35 | s. w. |
| 19 | 47 | 34 | 40 | 57 | 0 | 9.6 | 14.2 | 37 | w. |
| 20 | 49 | 31 | 40 | 80 | 0 | 7.3 | 9.0 | 21 | S. |
| 21 | 59 | 27 | 43 | 76 | . 24 | 3.6 | 17.3 | 34 | N. W |
| 22 | 41 | 26 | 34 | 58 | 0 | 9.3 | 7.9 | 16 | W. |
| 23 | 53 | 32 | 42 | 76 | .13 | 0 | 12.7 | 26 | s. |
| 24 | 52 | 42 | 48 | 62 | 0 | 2.4 | 80 | 14 | w. |
| 25 | 48 | 35 | 42 | 64 | 0 | 9.8 | 7.9 | 19 | w. |
| 26 | 54 | 34 | 44 | 68 | 0 | 4.8 | 11.8 | 30 | s. w. |
| 27 | 51 | 25 | 38 | 54 | Т | 0 | 13.8 | 21 | s. w. |
| 28 | 36 | 24 | 30 | 46 | 0 | 9.9 | 9.2 | 20 | w. |
| 29 | 36 | 18 | 27 | 68 | .06 | 1.3 | 11.6 | 17 | N., S. E. |
| 30 | 48 | 35 | 42 | 86 | T | 5.6 | 10.0 | 17 | S. W. |
| 31 | 62 | 39 | 50 | 84 | .08 | 8.4 | 18.0 | 39 | s. w. |
| Totals | | | _ | prom | 2.38 | 141.3 | _ | - | _ |
| Means | 47.9 | 30.7 | 39.2 | 70.9 | 0.08 | 48% | 12.3 | 4th | s. w. |

Latitude 42 degrees 21 minutes.

Longitude 71 degrees 4 minutes.

BOSTON WARD MAP.





MONTHLY BULLETI

OF THE

HEALTH DEPARTMENT

OF THE

CITY OF BOSTON



| | | | | \mathbf{P}_{I} | AGE |
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CITY OF BOSTON PRINTING DEPARTMENT 1913

ORGANIZATION OF THE HEALTH DEPARTMENT

FRANCIS X. MAHONEY, M. D., Chairman. P. H. MULLOWNEY, M. D. V.

F. H. SLACK, M. D., Secretary.



MONTHLY BULLETIN

OF THE

HEALTH DEPARTMENT OF THE CITY OF BOSTON.

All communications relating to this publication should be addressed to BULLETIN OF THE HEALTH DEPARTMENT, 100 Summer St., Boston.

Vol. 2.

BOSTON, FEBRUARY, 1913.

No. 2.

MANURE AND ITS RELATION TO FLY BREEDING.

After scientific investigation by several professors connected with Harvard University and with other institutions throughout the country, it has been decided that the stable fly (stomoxys calcitrans) is very apt to be a carrier of the organism which creates infantile paralysis. Directly after the announcement of this theory, the Board of Health of the City of Boston caused an investigation to be made, covering all of the principal cities of the United States, with regard to the methods generally employed in handling, storing and transporting manure and stable refuse. The Board found that many cities are without any regulations covering this problem. In several of them the collection and disposition of manure is performed by the municipality itself, a charge of so much per head for each horse is levied, and collections of the material are made at frequent intervals. In other cities the collection is let out by contract to the lowest bidder, after proposals have been received, and in a few cities the work is done under contract between the owners or occupants of the stables and private contractors, the latter charging so much per animal or so much per week.

In a number of cities permits are issued by the health authorities covering the transportation of manure, these permits stipulating the character of vehicle to be used and the manner in which the transporting is to be done. The maintenance of manure dumps in suitable locations is also permitted under license in some cities; these dumps are located either on the waterfront or in isolated sections close to railroad tracks.

After carefully reviewing the rules and regulations of the different cities, the Board adopted the following, which is now effective, having been publicly advertised:

At a meeting of the Board of Health held this day, it was

Ordered, That all regulations heretofore adopted by the Board of Health respecting the handling, storing and transportation of manure, excrement of domestic animals and stable refuse be hereby repealed and abolished, and the following regulations adopted by said Board:

WHEREAS, In the opinion of the Board of Health of the City of Boston, manure, excrement of domestic animals and stable refuse (hereinafter termed "substances") in said city are a nuisance, source of filth and cause of sickness; it is therefore ordered:

First.—That no person having control of any premises in the City of Boston shall keep in, or permit to remain therein, or in or on any premises adjacent thereto, such substances, unless stored in tightly covered metallic cans or in vehicles constructed in a manner approved by the Board of Health.

Second.—All receptacles used for storing such substances shall be kept clean to the satisfaction of the Board of Health.

Third.— All such substances which accumulate on any premises shall be removed within forty-eight hours from the time of accumulation; and in specific cases as much oftener as the Board of Health shall order.

Fourth.— No can or vehicle containing such substances shall be placed in or allowed to stand in any public way.

Fifth.—Such substances shall be removed only in vehicles holding a permit to do so issued by the Board of Health, and the removal and transportation of such substances shall be done in accordance with the terms of such permit and not otherwise. Such vehicles shall be of a construction approved by said Board. Vehicles holding such permit shall be loaded within the building from which the substances are being removed, and not upon the street or sidewalk, and the substances shall be removed from such building in a manner not in any way offensive or so as to cause any nuisance.

Sixth.—All such substances, when transported through the streets, must be covered and secured so that no part of the same will fall or drip on the streets, and so as to prevent the escape of offensive odors.

Seventh.—Such substances shall not be unloaded or deposited within the city limits, except upon the conditions of a permit from the Board of Health. This shall be done only in such places as shall be approved by said Board, and in accordance with a permit from said Board for such unloading or depositing which shall have previously been granted by said Board.

Eighth.— No manure pit shall hereafter be maintained in the City of Boston.

A true copy.

Attest:

S. L. Maloney, Acting Secretary.

It has been estimated after competent investigation that about 75 per cent of the breeding of flies is done in stable manure, the other 25 per cent largely in garbage barrels, garbage heaps and damp places, where dead leaves, etc., have accumulated. It will therefore be readily appreciated that it is the duty of boards of health to make every effort to prevent, in all reason-

able ways, the propagation of these insects, and in connection with the work that is to be done by the Health Department it has been deemed advisable to have a complete card index and report made upon the condition of every stable in the City of Boston. After these reports are available, it is the intention of the Board to compel a rigid observance of the provisions of this new regulation, and it will insist that manure in the different stables throughout the city be not stored or kept on the premises for a period of over forty-eight hours. The owners or occupants of all manure dumps or storage bins will be compelled to apply for and receive a license before they can maintain such places, and the licensees will be compelled to maintain their establishments in a manner entirely satisfactory to the Board.

In addition to the handling and disposal of manure, the lighting, ventilation, drainage and proper occupancy of stables in this city will be thoroughly investigated, and if any defects are found to exist in them it is the intention of the Board to have suitable repairs made by the owners or occupants.

The Board of Health requests the cooperation of all citizens in this general effort that is to be made toward the abolition of the fly nuisance, and it pledges its best efforts and all the facilities at its command to this very important work of stamping out a probable source of serious disease infection.

REGULATION FOR THE COVERING OF FOOD STUFFS.

Boston, February 12, 1913.

At a meeting of the Board of Health held this day, it was *Ordered*, That the following regulations be adopted, the same having been made by virtue of the provisions of Acts of 1912, chapter 448:

Section 1. It is hereby ordered that, except during the process of sale or while in the act of loading or unloading vehicles, no cut meat, fish, shucked shell fish, dried or preserved fruits, dates, figs, cut fruits, cut melons, cracked nuts, nut meats, popped corn, candies, confectionery or bakers' products, which are intended for sale for human food, shall be conveyed from place to place, or kept in an open window or doorway, or kept outside of a building or in any public or private way of the City of Boston, unless so covered with clean material and so placed as to be protected from dust, flies and animals.

Sect. 2. Every person being the occupant or lessee of any room, stall, building or other place, and every person being the owner or person in charge of any stand, case, rack, bench, pushcart or other vehicle, where or from which human food is kept, stored, sold or offered for sale, shall

maintain such room, stall, building or other place, stand, case, rack, bench, pushcart or other vehicle and its appurtenances in a clean and wholesome condition.

- Sect. 3. All persons while engaged in the handling of articles of food in such room, stall, building or other place shall wear clean outer garments, and shall be free from contagious or infectious disease.
- Sect. 4. No room in which articles of food are prepared, kept, stored, sold, or offered for sale, shall be used for domestic purposes or open directly into any room so used, unless the conditions of such room are approved by the Board of Health. In no such room shall there be a water-closet unless the same is approved by the Board of Health. All shops or stores used for the sale of articles of food shall be equipped with such lavatory accommodations as the Board of Health may order and approve.
- Sect. 5. The use of unclean paper for the wrapping of articles of food is prohibited.
- Sect. 6. Every pedler of foodstuffs from wagons or carts, in addition to the clean covering provided for in this regulation, shall keep in his wagon or cart a water-tight and sufficient receptacle for the wastes of his business, and such wastes shall be so disposed of as not to cause a nuisance.

A true copy.
Attest:

S. L. Maloney,
Acting Secretary.

SUMMARY OF VITAL STATISTICS FOR THE MONTH OF FEBRUARY, 1913.

Boston had 990 deaths in February 1913, compared with 1,056 for February of last year; and a death rate of 17.55 against 18.46 for February, 1912.

Deaths of nonresidents numbered 116 against 111 a year ago. Deducting deaths of nonresidents the corrected death rate for February, 1913 was 15.49 against 16.52 for February, 1912.

Of deaths from reportable diseases the principal decreases were tuberculosis (all forms), 18, and scarlet fever, 2; and the principal increases were whooping cough, 9, diphtheria, 6, and typhoid fever, 6, though it should be noted that 4 of the typhoid deaths and 3 of the diphtheria deaths occurred among cases brought to Boston for treatment.

Other important differences were as follows:

February, 1913, decreases compared with February, 1912:

| | | , | | | | | | | 0) | | | | |
|-----|-------------|-----------|-------|--------|------|------|-----|------|-------|-----|---|-----|----|
| | Heart disea | ase and | nepl | nritis | | | | | | | , | . : | 30 |
| | "Other dis | eases" | | | | | | | | | | : | 30 |
| | Violent des | aths | | | : | | | | | | | | 9 |
| | Suiciae . | | | | | | | | | | | | 6 |
| | Puerperal s | septicen | nia | | • . | • 1 | | | | | | ٠, | 5 |
| Feb | ruary, 1913 | , increas | ses c | ompa | ared | with | Feb | ruar | y, 19 | 12: | | | |
| | Broncho-pr | neumoni | ia · | | | | | | | | | | 9 |
| | Ill defined | diseases | 3 | | | | | | | | | | 7 |
| | Other puer | peral di | seas | es | | 4. | | | | | | | 6 |
| | Cirrhosis | | | | | | 100 | | ٠. | | | | 5 |
| | Cancer . | | | | | | | | | | | | 3 |

Ward 8 had the lowest rate, 9.34 and Ward 18 the highest, 21.41.

There were 2 less deaths under 1 year than in February, 1912, 2 less under 5 years, and 26 less over 60. Total deaths under one year were 191, which is 10 more than the average number for February for the preceding five years.

Seventy-one of these deaths were due to premature birth, congenital debility, malformations and other diseases peculiar to early infancy; 45 to pneumonia and broncho-pneumonia; 18 to reportable diseases; 15 to diarrhea and enteritis; and 42 to other causes.

Of these deaths under 1 year Ward 6 had the largest number, 23, and Ward 24 came next with 11.

One hundred twenty-eight were over two weeks old and 68 of these were bottle fed.

GENERAL STATISTICS. Population, Ward Area, Persons to Acre, and Rates.

| | | us. | la- | | STILLB | итня E | XCLUDED. |
|----------|---------------------|--------------------------|--|--|--|--|---|
| | Land Area in Acres. | Population, 1910 Census. | Persons to Acre of Land. (Using Census Population.) | Population, Estimated, July 1, 1913.† | Death Rates, 1912. (Population, Estimated.)† | Birth Rates, 1911. (Population, Estimated.)† | Death Rates, 1912, of Children Under One Year, Per 1,000 Births, 1911. |
| * Boston | 27,674 | 686,092 | 24.8 | 735,399 | 16.17 | 25.99 | 119.35 |
| Wards 1 | 1,188 | 29,676 | 24.9 | 32,439 | 13.05 | 24.90 | 104.58 |
| 2 | 357 | 28,812 | 80.7 | 30,676 | 17.11 | 33.37 | 120.81 |
| 3 | 332 | 15,339 | 46.2 | 15,667 | 15.29 | 26.84 | 106.02 |
| 4 | 301 | 13,294 | 44.1 | 13,808 | 18.02 | 25.50 | 148.26 |
| 5 | 207 | 12,811 | 61.9 | 12,914 | 16.69 | 24.28 | 118.59 |
| 6, | 293 | 35,758 | 122.0 | 39,492 | 16.18 | 48.81 | 100.33 |
| 7 | 394 | 14,913 | 37.9 | 14,483 | 20.05 | 26.57 | 94.39 |
| 8 | 171 | 32,430 | 189.6 | 33,479 | 12.07 | 33.21 | 70.64 |
| 9 | 186 | 26,427 | 141.5 | 29,214 | 15.13 | 27.40 | 106.24 |
| 10 | 394 | 25,320 | 64.3 | 26,277 | 11.86 | 10.51 | 114.81 |
| 11 | 663 | 27,444 | 41.4 | 30,738 | 9.69 | 14.22 | 63.73 |
| 12 | 235 | 24,294 | 103.4 | 25,948 | 14.98 | 14.57 | 181.82 |
| 13 | 611 | 21,561 | 35.3 | 21,501 | 17.24 | 31.11 | 117.91 |
| 14 | 405 | 23,584 | 58.2 | 24,527 | 14.44 | 24.14 | 115.92 |
| 15 | 277 | 21,216 | 76.6 | 21,803 | 14.80 | 20.25 | 119.82 |
| 16 | 564 | 25,633 | 45.6 | 28,033 | 12.75 | 24.23 | 110,42 |
| 17 | 460 | 26,426 | 57.4 | 27,793 | 15.49 | 25.65 | 117,22 |
| 18 | 220 | 22,735 | 103.3 | 23,133 | 17.08 | 25.08 | 99.30 |
| 19 | 760 | 31,714 | 41.7 | 33,332 | 13.77 | 22.77 | 111.41 |
| 20 | 1,716 | 55,720 | 32.5 | 64,723 | 12.97 | 20.33 | ‡158.90 |
| 21 | 640 | 30,511 | 20.5 | 33,085 | 13.54 | 17.53 | 85.14 |
| 22 | 760 | 29,975 | 38.1 | 31,403 | 12.50 | 20.55 | 100,48 |
| 23 | 7,617 | 30,668 | 4.0 | 33,423 | 12.13 | 19.93 | 94.94 |
| 24 | 3,252 | 37,749 | 11.6 | 41,695 | 12.63 | 23.73 | 103.11 |
| 25 | 2,740 | 26,575 | 9.7 | 29,661 | 11.95 | 24.73 | 96.21 |
| 26 | 2,869 | 15,507 | 5.4 | 16,152 | 12.29 | 29.59 | 107.30 |

^{*} Hyde Park was annexed to Boston January 1, 1912, and became Ward 26. Under "Boston." in the above table, Hyde Park statistics are included.

† Population estimated by arithmetical method, using the Censuses of 1905 and 1910.

[‡] An infant asylum is located in this ward.

VITAL STATISTICS.

February. General Summary.

| | | | | 1913, | 1912. |
|------------------------|--|--|--|---------|---------|
| Total deaths | | | | 990 | . 1,056 |
| Population, estimated* | | | | 735,399 | 720,031 |
| Death rate per 1,000 | | | | 17.55 | 18.46 |
| Deaths of nonresidents | | | | 116 | 111 |
| Corrected death rate† | | | | 15.49 | 16.52 |

^{*}Population estimated by arithmetical method, using the censuses of 1905 and 1910.

†Nonresidents not included.

February, 1913. Statement of Deaths.

| Total number | r (sti | llbir | ths | ex- | 1 | NATIVITY. | |
|--|-------------|--------------------------|------|-----|-----------------------------------|---|---|
| cluded) | | | | | 990 | United States | 604 |
| | Ť | | Ť | · | | Ireland | 171 |
| | SE | ix. | | | | England and Wales | 24 |
| Males . | | | | | 513 | Scotland | 8 |
| | | | | | 477 | Germany | 20 |
| 2 02220200 | | | · | · | 200 | | 73 |
| (| COND | ITIO | N. | | | Italy | 22 |
| Single . | | | | | 481 | Russia and Poland | 28 |
| | | | | | 329 | Sweden and Norway | 9 |
| | | | | | 0_0 | France | 2 |
| Widowed | | | | | 172 | Other countries | 22 |
| Divorced | | ٠ | | | 4 | Unknown | 7 |
| | | | | | | | |
| Unknown | | | | | 4 | NATIVITY OF MOTHERS. | |
| Unknown | Ť | | | | 4 | United States | 275 |
| 0 | Con | LOR. | | | | United States Ireland | 311 |
| White . | Coi | LOR. | | | 963 | United States | |
| White . Black (negro | Cor or m | LOR. | | | 963 22 | United States Ireland | 311 |
| White . | Cor or m | LOR. | | | 963 | United States Ireland England and Wales | 311 32 |
| White . Black (negro | Cor or m | LOR ixed | .) . | | 963 22 | United States Ireland | 311 32 18 29 76 |
| White . Black (negro | Cor or m | LOR. • • • • | .) . | | 963 22 4 | United States Ireland | 311 32 18 29 76 67 |
| White . Black (negro Chinese . Japanese . Deaths of ch | Cor or m | LOR. ixed | | | 963 22 4 1 | United States Ireland | 311 32 18 29 76 67 55 |
| White . Black (negro Chinese . Japanese . Deaths of ch Under one | Cor or m | ixed | | | 963 22 4 1 | United States Ireland | 311 32 18 29 76 67 55 11 |
| White . Black (negro Chinese . Japanese . Deaths of ch Under one Under two | Con. or m | ixed | | | 963 22 4 1 191 234 | United States | 311 32 18 29 76 67 55 11 |
| White . Black (negro Chinese . Japanese . Deaths of ch Under one | Con. or m | ixed | | | 963 22 4 1 191 234 | United States Ireland | 311 32 18 29 76 67 55 11 |

| | editially, 1913. | | | | | | | | | | uncj | |
|--------------------------------|--|-------|-------|------------|----------|----------|----------|----------|------------|----------|----------|----------|
| Abridged List Class Number. | CAUSES OF DEATH. | Тот | ALS. | Year. | | | | | Years. | Years. | Years. | Years. |
| Abridge Class 1 | CAUSES OF DEATH. | 1913. | 1912. | Under 1 | 1 Year. | 2 Years. | 3 Years. | 4 Years. | Under 5 | 5 to 9 Y | 10 to 14 | 15 to 19 |
| | Total, all causes ${1912 \atop 1911}$ | 990 | 1,056 | 191 193 | 43 40 | 23 15 | 4 11 | 4 8 | 265 267 | 18 18 | 5 16 | 14 12 |
| 1 | Typhoid fever | 8 | 2 | | | | | | | 1 | 1 | 1 |
| 3 | Malarial fever | | | | | | | | | | | |
| 4 | Smallpox | | | | | | | | | | | |
| 5 | Measles | 12 | 12 | 3 | 6 | 1 | 1 | | .11 | 1 | | |
| 6 | Scarlet fever | 9 | 11 | 1 | 1 | -3 | 1 | 1 | 7 | 2 | | |
| 7 | Whooping cough | 15 | . 6 | 6 | 7 | 1., | | | 14 | 1 | | |
| 8 | Diphtheria and croup | 15 | 9 | 2 | . 4 | 5 | | | 11 | 2 | 2 | |
| 9 | Influenza | 1 | 4 | | | | | | | | | |
| 12 | Other epidemic diseases | 7 | 10 | 2 | | | | | 2 | | | |
| 13 | Tuberculosis of the lungs | 85 | 95 | 2 | 1 | | | | 3 | | 1 | 3 |
| 14 | Tuberculous meningitis | 8 | 12 | 1 | 3 | 2 | | 1 | 7 | 1 | | |
| 15 | Other forms of tuberculosis | 4 | - 8 | 2 | | | | 1 | 3 | | | · 1 |
| 16 | Cancer, malignant tumor | 65 | 62 | | | | | | | 2 | . , | |
| 17 | Simple meningitis (except cerebrospinal meningitis). | 1 | . 6 | , | | | | | | . , | | |
| 17a | Cerebro-spinal meningitis | 2, | 4 | 1 | | 1 | | | 2 | | | |
| 18 | Apoplexy and softening of the brain, | 50 | 52 | 1 | | | | | 1 | , | | |
| 19 | Organic heart diseases | 139 | 140 | | | , | | | | 2 | 1 | 2 |
| 20 | Acute bronchitis | 11 | 14 | 7 | 1 | | | | . 8 | | | |
| 21 | Chronic bronchitis | 5 | 1 | | | | | | | | | |
| 22 | Pneumonia (except broncho-pneumonia). | 95 | 95 | 18 | 3 | 3 | | | 24 | 1 | | '1 |
| 22a | Broncho-pneumonia | 69 | 60 | 27 | · 11 | 3 | | | 41 | | | 1 |
| 23 | Other respiratory diseases | 12 | 8 | 2 | 1 | | | | 3 | | | |
| 24 | Diseases of the stomach (cancer excepted). | 6 | 13 | -2 | | | | | 2 | | | |
| 25 | Diarrhea and enteritis (under two years). | 17 | 15 | 15 | 2 | | | | 17 | | | |
| 26 | Appendicitis and typhlitis | | 7 | | | | | | | | | 2 |
| 27 | Hernia, intestinal obstruction | | 9 | 1 | | | | | 1 | | | |
| 28 | Cirrhosis of liver | | 4 | | | | | | | | | |
| 29 | Bright's disease and nephritis | | 78 | 1 | | | | | 1 | | | 1 |
| 30 | Diseases of women (not cancer) | | 8 | | | | | | | | | |
| 31 | Puerperal septicemia | 2 | 7 | | | | | | | | | |
| 32 | Other puerperal diseases | 9 | 3 | | | | | | | | | 1 |
| 33 | Congenital debility and malformations. | 57 | 55 | 57 | | | | | 57 | | | |
| 34 | Old age | 1 | 4 | | | | | | | | | |
| 35 | Violent deaths | 42 | 51 | 2 | 1 | 1 | 2 | 1 | 7 | 3 | | |
| 36 | Suicide | 5 | 11 | | | | | | | | | |
| 37 | Other diseases | 147 | 177 | 31 | 2 | 3 | | | 36 | 2 | | 1 |
| 38 | Ill-defined causes | 10 | 3 | 7 | | | | | 7 | | | |

February, 1913.

| Second S | | | | | | | | | | | | | | | | | | |
|--|------------|-----------|----------|----------|----------|----------|----------|----------|--------------|----------|----------|------------|----------|----------|------------|------------|------------|------------------|
| 15 39 43 57 55 61 49 82 68 08 65 36 25 17 8 513 477 | ears. | ears. | Zears. | [ears. | ears. | Zears. | Zears. | Zears. | [ears. | cars. | lears. | Zears. | Zears. | rears. | and | S | EX. | List umber. |
| 46 | 20 to 24 Y | to 29 | to 34 | to 39 | to 44 | to 49 | to 54 | to 59 | to 64 | to 69 | to 74 | to 79 | to 84 | | 90 Years s | Males. | Females. | Abridged Class N |
| | 15 45 | 39 41 | 43 50 | 57 43 | 55 58 | 61 55 | 49 68 | 82 70 | 68 69 | 68 69 | 65 48 | 36 . 59 | 25 38 | 17 25 | 8 5 | 513 537 | 477 519 | |
| | | 2 | | 2 | | | 1 | | | | | | | | | 4 | 4 | 1 |
| | | | | | | | | | | | •••• | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | | 4 |
| | | | | | | | | | | | | | | | | 7 | 5 | 5 |
| | | | | | | | | | | | | | | | | 7 | 2 | 6 |
| | | | | | | | | | | | | | | | | 12 | 3 | 7 |
| 1 1 1 1 1 1 | | | | | | | | | | | | | | | | 5 | 10 | 8 |
| 3 14 9 15 11 13 6 3 1 2 1 56 29 13 | | | | | | | | | | 1 | | | | | | | 1 | 9 |
| | 1 | | - 1 | | | 1 | | . 1 | | | 1 | | | | | 6 | 1 | 12 |
| | 3 | 14 | 9 | 15 | 11 | 13 | 6 | 3 | 1 | 2 | | 1 | | | | 56 | 29 | 13 |
| 1 1 1 1 3 4 8 6 9 8 9 7 4 2 28 37 16 | | . | | | | | | | | | | | | | | 3 | | 14 |
| 1 1 177 </td <td></td> <td>2</td> <td></td> <td>15</td> | | | | | | | | | | | | | | | | 2 | | 15 |
| | 1 | 1 | 1 | 3 | 4 | 8 | 6 | 9 | 8 | 9 | 7 | 4 | 2 | | | 28 | 37 | 16 |
| | | • • • • • | | | 1 | | | | | | | | | | | 1 | | 17 |
| 1 1 6 8 4 12 5 23 20 17 17 9 6 2 3 61 78 19 1 1 1 1 1 1 1 6 5 20 1 1 1 1 1 1 1 1 6 5 20 1 1 1 1 1 2 3 21 2 2 3 7 6 5 9 10 5 7 6 2 5 63 32 22 2 1 1 3 4 1 7 3 2 1 1 36 33 24 1 1 1 1 1 1 1 1 1 1 1 <td></td> <td>2</td> <td>17a</td> | | | | | | | | | | | | | | | | | 2 | 17a |
| 1 | | | | 2 | 2 | | | | , | | 6 | 4 | 2 | 2 | 1 | 17 | 33 | 18 |
| 1 1 1 1 1 1 1 2 3 21 2 2 3 7 6 5 9 10 5 7 6 2 5 63 32 22 2 1 1 1 3 4 1 7 3 2 1 1 36 33 22a 2 1 1 1 2 1 1 1 1 1 1 1 4 8 23 1 1 1 1 1 1 1 1 1 1 1 1 3 3 24 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 | 1 | 6 | . 8 | 4 | 12 | 5 | 23 | 20 | 17 | 17 | 9 | 6 | 2 | 3 | 61 | 78 | 19 |
| 2 2 3 7 6 5 9 10 5 7 6 2 5 63 32 22a 2 1 1 1 3 4 1 7 3 2 1 1 36 33 22a 2 1 1 2 1 1 1 1 33 22a 1 2 1 1 1 1 33 24 1 1 1 1 1 10 2 1 </td <td></td> <td>1</td> <td></td> <td>1</td> <td>1</td> <td>6</td> <td></td> <td>20</td> | | | | | | | | | | | | 1 | | 1 | 1 | 6 | | 20 |
| 2 1 1 1 3 4 1 7 3 2 1 1 36 33 22a 2 1 2 1 1 1 1 1 4 8 23 1 1 1 1 1 1 1 1 1 3 24 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | 1 | | | | | | 1 | | | 1 | 1 | | | | 2 | 3 | 21 |
| 2 1 2 1 1 1 1 1 4 8 23 1 1 1 1 1 1 1 1 3 3 24 5 12 25 1 1 1 1 1 1 1 4 3 26 3 2 1 1 1 4 4 4 27 2 1 2 1 1 2 5 4 28 4 1 6 3 4 5 4 6 6 6 3 2 3 22 27 29 2 2 1 2 1 2 1 2 1 1 2 1 2 8 30 1 1 2 1 2 1 2 1 2 1 1 1 1 1 2 1 1 1 2 1 1 1 1 | 2 | 2 | 3 | 7 | 6 | 5 | 9 | , | 5 | 7 | | 2 | 5 | | | 63 | 32 | 22 |
| 1 1 1 1 1 1 3 3 3 24 1 1 1 1 1 1 1 1 1 3 3 3 24 1 1 1 1 1 1 | | 2 | 1 | 1 | | | | | 4 | 1 | 7 | 3 | 2 | 1 | 1 | 36 | | 22a |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 4 4 2 2 1 1 1 1 4 4 2 7 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 2 2 2 2 3 2 2 2 2 3 2 2 2 2 3 2 2 2 3 2 2 3 2 2 3 2 2 3 2 | • • • • • | | 2 | | 1 | | 2 | 1 | 1 | | | 1 | | 1 | | 4 | 8 | 23 |
| 1 1 1 1 1 1 1 1 4 3 26 2 1 1 1 2 5 4 28 4 1 6 3 4 5 4 6 6 3 2 3 22 27 29 2 2 1 2 1 2 1 | • • • • • | | | 1 | | | | | | | 1 | 1 | | 1 | | 3 | 3 | 24 |
| 3 2 1 4 4 27 2 1 2 1 1 2 5 4 28 4 1 6 3 4 5 4 6 6 3 2 3 22 27 29 2 2 1 2 1 2 1 | | | | | | | | | | | | | | | | 5 | | |
| 2 1 2 1 1 2 5 4 28 4 1 6 3 4 5 4 6 6 3 2 3 22 27 29 2 2 1 2 1 8 30 1 1 | | · · · · · | 1 | 1 | | | 1 | | | | | | | | | 4 | 3 | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | . 3 | | | | 2 | | 1 | | 1 | | | 4 | | |
| 2 2 1 2 1 8 30 1 1 9 32 | • • • • • | | | | | | 1 | | | | | | | | | | | |
| 1 1 1 9 32 | | | | | | | | | 4 | | 6 | 3 | 2 | 3 | | 22 | | |
| 3 2 2 1 9 32 1 1 34 2 7 2 4 4 2 4 3 1 1 2 30 12 35 1 1 1 2 4 1 36 2 5 6 10 9 16 6 9 8 10 11 3 5 6 2 81 66 37 | | | | | 2 | 1 | | 2 | | 1 | | | | | | | | |
| | | Ī | | | | | | | | | | | | | | | 2 | |
| 1 2 7 2 4 4 3 1 2 1 36 2 5 6 10 9 16 6 9 8 10 11 3 1 3 1 3 2 5 6 6 9 8 10 11 11 3 11 3 11 3 12 3 13 3 10 3 10 3 10 3 10 3 10 3 10 3 10 3 10 3 10 3 10 3 10 3 10 3 10 3 10 3 11 3 11 3 12 3 13 3 10 3 10 3 11 3 11 < | 3 | 2 | 2 | 1 | | | | | | | | | | | | | | |
| 2 7 2 4 4 2 4 3 1 1 2 30 12 35 1 1 1 2 4 1 36 2 5 6 10 9 16 6 9 8 10 11 3 5 6 2 81 66 37 | | | | | | : | | | | | | | | | | 29 | | |
| 1 1 2 5 6 10 9 16 6 9 8 10 11 3 36 37 | | | | | | } | | | | | | | | | | | | |
| 2 5 6 10 9 16 6 9 8 10 11 3 5 6 2 81 66 37 | | | 2 | 4 | 4 | | 2 | | | | | 2 | | | | 30 | | |
| | | | | | | 1 | | | | | | | | | | | | |
| 1 1 6 | 2 | 5 | 6 | | | | | | 8 | | | ł | 5 | 6 | 2 | | 1 | |
| | | | | 1 | | | | 1 | | 1 | | | | | | 6 | 4 | 38 |

among cases sent to Boston for treatment: Typhoid fever, 4; measles, 1; scarlet fever, 2; and diptheria, 3.

| Abridged List Class Number. | CAUSES OF DEATH. | 'n. | | | | 7, | WARD | Resi | DENCE | • | | | |
|--------------------------------|---|------------------|----------------|----------------|------------------|----------------|----------------|----------------|-----------------------|-----------------|----------------|----------------|----------------|
| Abrid | | Boston. | 1. | 2. | 3. | 4. | 5. | б. | 7. | 8. | 9. | 10. | 11. |
| | All causes | 990 | 36 | 37 | 17 | 18 | 16 | -52 | 23 | 24 | 40 | 28 | 24 |
| | Rates per 1,000 Feb., 1913 population Feb., 1912 | $17.55 \\ 18.46$ | 14.47 11.16 | 15.72 28.44 | $14.14 \\ 16.17$ | 16.99 23.06 | 16.15 21.49 | 17.16 17.08 | $\frac{20.70}{19.80}$ | $9.34 \\ 15.19$ | 17.85 15.54 | 13.89 17.93 | 10.18 13.56 |
| 1 | Typhoid fever | 8 | 1 | | , | | | | 1 | | | | |
| 3 | Malarial fever | | | | | | | | | | | | |
| 4 | Smallpox | | | | | | | | | | | | |
| 5 | Measles | 12 | | | | | | 2 | 4 | | 1 | | 1 |
| 6 | Scarlet fever | 9 | | | | | | | | | | | 1 |
| 7 | Whooping cough | 15 | 1 | | | | | 1 | | 2 | | . , | ···· |
| 8 | Diphtheria and croup | 15 | 2 | | | 1 | | | 1 | 1 | | | |
| 9 | Influenza | 1 | | | | | | | | | | | |
| 12 | Other epidemic diseases | 7 | , | | | | | 1 | | : | | | |
| 13 | Tuberculosis of the lungs | 85 | 2 | 1 | 1 | 5 | 1 | 3 | . 2 | 1 | 10 | 3 | |
| 14 | Tuberculous meningitis | 8 | | | | | | | | | 1 | | |
| 15 | Other forms of tuberculosis | 4 | 2 | | 1 | | | | | | | | |
| 16 | Cancer, malignant tumor | 65 | 4 | 4 | 1 | | 1 | | 1. | 1 | 3 | 5 | 1 |
| 17 17a | Simple meningitis (except cerebro-spinal meningitis). Cerebro-spinal meningitis | 1 2 | | | | | 1 | | | | | | |
| 18 | Apoplexy and softening of the | 50 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | | 1 | 1 | 4 |
| 19 | brain. Organic heart diseases | 139 | 3 | 3 | 4 | - | 5 | 7 | | 4 | 5 | 5 | |
| 20 | Acute bronchitis | 11 | | | _ | | | 2 | | * | | | 1 |
| 21 | Chronic bronchitis | 5 | | | | 1 | | _ | | | | | 1 |
| 22 | Pneumonia (except broncho- | 95 | 5 | 7 | | 1 | 3 | 4 | 3 | 2 | 6 | | 5 |
| 22a | pneumonia). Broncho-pneumonia | 69 | 1 | 5 | * • • • • | 3 | | 11 | 3 | 1 | 1 | 1 | 3 |
| 23 | Other respiratory diseases: | 12 | | 1 | | | | 3 | | | 1 | | |
| 24 | Diseases of the stomach (cancer | 6 | | 1 | | | | 1 | | | - | | |
| 25 | excepted). Diarrhea and enteritis (under | 17 | | | - | | | 1 | | 2 | | | |
| 26 | two years). Appendicitis and typhlitis | 7 | | | | | | • | | | | | |
| 27 | Hernia, intestinal obstruction, | | | | | 1 | 1 | | 1 | | 1 | - | |
| 23 | Cirrhosis of liver | 9 | 1 | | 1 | | | | | | - | | |
| 29 | Bright's disease and nephritis | 49 | 1 | 2 | 1 | | | | 1 | | | 5 | 1 |
| 30 | Diseases of women (not cancer), | 8 | | | | | | | | | | | 1 |
| 31 | Puerperal septicemia | 2 | | | | | | | | | | | |
| 32 | Other puerperal diseases | 9 | | | | | | 1 | | 1 | | | |
| 33 | Congenital debility and mal- | 57 | 5 | 1 | 1 | 1 | | 4 | 2 | | 3 | 3 | 1 |
| 31 | formations. Old age | : 1 | | | | | | | | | | | |
| 35 | Violent deaths | 42 | 1 | 4 | 1 | | 1 | 1 | | 2 | 3 | | 2 |
| 36 | Suicide | 5 | | | | | | | 1 | | | | |
| 37 | Other diseases | 147 | 5 | 5 | 5 | 2 | 2 | 7 | 2 | 7 | 3 | 4 | 3 |
| 38 | Ill defined causes | 10 | 1 | 1 | | 1 | | 2 | | | | 1 | |
| | Total deaths under one year | 191 | 9 | 4 | 4 | 5 | 1 | 23 | 6 | 6 | 6 | 5 | 4 |
| | and the search one search | 201 | | 1 | | | | 20 | | | | | |

| | Ward Residence. | | | | | | | | | | | | | Boston, Ward Unknown. | Nonresidents. | Unknown. | Abridged List Class Number. | |
|----------------|------------------|----------------|------------------|-----------------------|------------------|-----------------------|------------------|----------------|-----------------------|------------------|------------------|-----------------------|------------------|--------------------------|---------------|----------|--------------------------------|----------------|
| 12. | 13. | 14. | 15. | 16. | 17. | 18. | 19. | 20. | 21. | 22. | 23. | 24. | 25. | 26. | Boste | Nonr | Unkr | Abrid Class |
| 29 | 33 | 34 | 28 | 40 | 31 | 38 | 42 | 66 | 43 | 34 | 39 | 41 | 38 | 15 | | 116 | 8 | |
| 14.57 12.87 | $20.01 \\ 15.21$ | 18.07 11.43 | $16.74 \\ 17.46$ | $\frac{18.60}{14.76}$ | $14.54 \\ 16.10$ | $\frac{21.41}{18.60}$ | $16.43 \\ 16.49$ | 13.29 16.06 | $\frac{16.94}{20.27}$ | $14.11 \\ 12.60$ | $15.21 \\ 11.21$ | $\frac{12.82}{17.73}$ | $16.70 \\ 16.23$ | 12.11 18.94 | | | | |
| | | | | | | | | , | 1 | | 1 | | | | | 4 | | 1 |
| | | | | | | | | | | | | | | | : | | | 3 |
| | | | | | | | | | | | | ' | | | | | | 4 |
| | | | | | | 1 | · · · · · | 1 | | 1 | | | | | | 1 | • • • | 5 |
| | 1 | | 1 2 | 1 | 1 2 | 1 | | 1 | 1 | | | | 1 2 | | | 2 | | 6 |
| | | 1 | | 3 | 2 | | | | 1 | | | | | | | 3 | | 8 |
| | | | | | | | | | | | 1 | | | | | | | 9 |
| | | | | | | 1 | | | | | | | 2 | 1 | | 2 | | 12 |
| 6 | 3 | 5 | 5 | 5 | 3 | 5 | 7 | 1 | 3 | 4 | . 1 | ì | 1 | 1 | | 5 | | 13 |
| | | | 1 | | 2 | 1 | | 1 | | 1 | | 1 | | | | | | 14 |
| | | | | | | | | • • • • • | | 1 | | | | | | | | 15 |
| 2 | | 1 | | 2 | 2 | 3 | 4 | 4 | 2 | | 6 | 4 | 2 | 2 | | .10 | | 16 |
| | | | 1 | | | | | | | | | | | | | | | 17 17a |
| 3 | | 2 | 1 | 1 | | 3 | 3 | 4 | 2 | 1 | 1 | 3 | 5 | 2 | | 4 | | 18 |
| 3 | 7 | 7 | 5 | 7 | 5 | 5 | 5 | 13 | 7 | 5 | 8 | 7 | 7 | 2 | | 10 | | 19 |
| | 1 | 1 | | | 1 | | 1 | | 1 | | 2 | 1 | | | | | | 20 |
| | 1 | | | 1 | | | | | 1 | 1 | | | | | | | | 21 |
| 1 | 4 | 1 | 1 | 3 | 1 | 4 | 2 | 4 | 5 | 6 | 2 | 5 | 6 | | | 13 | 1 | 22 |
| 2 | 1 | 2 | 3 | 3 | 1 | 4. | 4 | 3 | 2 | 1 | 1 | 6 | | 1 | | 5 | 1 | 22a |
| • • • • • | 1 | 1 | | 1 | | | 2 | 1 | | | | | 1 | | | •• | • • • | 23 |
| 1 | 1 | | | 1 2 | | | 1 | 1 | 1 2 | 1 | | 1 | | | | 4 | | 25 |
| | | | | | | | | 3 | | 1 | | 1 | 1 | | | | } | 26 |
| | | | | | | | | 2 | | 1 | 1 | | | | | | | 27 |
| 1 | | 1 | 1 | | | 1 | | 2 | 1 | | | | | | | | | 28 |
| 2 | 1 | 1 | 1 | 1 | 4 | 1 | 3 | 6 | 4 | 2 | 1 | 2 | . 1 | 2 | | 5 | 1 | 29. |
| • • • • • | | 1 | 1 | | | | 1 | | | 1 | | | | | | 3 | | 30 |
| • • • • • | | | | | | | | | | | 2 | | | | | | | 31 |
| 1 | | | 2 | 1 | 1 | | | 1 | | 2 | 2 | 3 | 2 | 9 | | 2 | 1 | 32 |
| | | | | 1 | 1 | 1 | 3 | 3 | | | | | | | | | | 34 |
| | | | 2 | | | 3 | 1 | 1 | 4 | | | | | | | | 1 | 35 |
| 1 | | | | | | | | | | | | | | | | } | 1 | 36 |
| 6 | | | 1 | 5 | 6 | 4 | 4 | 13 | 5 | 5 | 9 | 5 | 4 | 1 | | 22 | 2 | 37 |
| | | 2 | | | | | | | | | | | 1 | | | _ 1 | | 38 |
| 3 | 6 | 5 | 3 | 5 | 6 | 5 | 10 | 9 | 5 | 9 | 7 | 11 | 6 | 3 | | 21 | 4 | |

VITAL STATISTICS. February, 1913, Infant Mortality.

| Detailed List Class Number. | CAUSES OF DEATH. | Tor | RUARY FALS, DER EAR. | er I Day. | 2 Days. | 3 Days. | Days to I Week. | 2 Weeks. | 3 Weeks. | Weeks to I Month. | 2 Months. | 3 Months. | 6 Months. | 9 Months. | 12 Months. | Fed. | Over. | Nonresidents. |
|--------------------------------|--|-------|-------------------------------|-----------|---------|---------|-----------------|----------|----------|-------------------|-----------|-----------|-----------|-------------|------------|-----------|----------|---------------|
| Det | | 1913. | 1912. | Under | I to | 2 to | 3 D | 1 to | 2 to | 3 W | 1 to | 2 to | 3 to | 0 to | 9 to | Breast | Bottle 1 | Non |
| | Total | 191 | 193 | 22 | 7 | 9 | 11 | 14 | 11 | 8 | 21 | -12 | 36 | 16 | 24 | 60 | 68 | 21 |
| | Male | 101 | 104 | 10 | 4 | 3 | 7 | 5 | 4 | 6 | 15 | 3 | 22 | 9 | 13 | 33 | 39 | 11 |
| | Female | 90 | 89 | 12 | 3 | 6 | 4 | 9 | 7 | 2 | 6 | 9 | 14 | 7 | 11 | 27 | 29 | 10 |
| | White | 184 | 189 | 22 | 6 | 7 | 11 | 13 | 10 | 6 | 21 | 12 | 36 | 16 | 24 | 58 | 67 | 21 |
| | Colored | 7 | 4 | | 1 | 2 | | 1 | 1 | 2 | | | | | | . 2 | . 1 | |
| 1 | Typhoid fever | | | | | | | | | | | | | | | | | |
| 5 | Smallpox | | | | | | | | | | | | | | | | | |
| 6 | Measles | 3 | 4 | | | | | | | | | | - 1 | | 2 | · 2 | I | |
| 7 | Scarlet fever | 1 | l i | | | | | | v | | | | | | 1 | | . 1 | 1 |
| 8 | Whooping cough | 6 | i | | | | | | • • • | | 1 | | 1 | | 4 | 4 | . 2 | 1 |
| 9 | Diphtheria and croup | 2 | - | | | | | | | | | • • • • | | 1 | 1 | 1 | 1 | |
| 10 | Influenza | | | | | | | | | | | | | | | | | |
| 14 | Dysentery | | | | | • • • | • • • | • • • | | | | | • • • | | | | | |
| 18 | Erysipelas | | | | '. | | | • • • | • • • • | .1 | | | 1 | | | 1 | . 1 | 1 |
| 19 | Other epidemic diseases | | | | | | • • • | • • • | | | | | | | | • • • • • | | |
| 20 | Pus-infection and septicemia, | | | | | | | | • • • | | | | • • • | | | | 1 | 1 |
| 24 28 | Tetanus | | | | | | | | | • • • | | | | • • • • | • • • | | | |
| 29 | Tuberculosis of the lungs Acute miliary tuberculosis | | | | | | • • • | | | | | 1 | 1 | | | | 2 | |
| 30 | Tuberculous meningitis | 1 | | | | • • • | • • • | | • • • | • • • | | | | | • • • • | 1 | | |
| 31 35 | Other forms of tuberculosis | | | | | • • • | • • • | | • • • | | 1 | | | | | 1 | 1 | |
| 35f) 36 | Rickets | | | | | | | | | • • • | | | 2 | l | | 1 | 2 | |
| 37 | Syphilis | | | | | | 1 | | | 1 | | | 1 | | | 2 | | |
| 38 | Gonococcus infection | | | | | | | | | | | | | | | | | |
| 61 | Simple meningitis | | | | | | | | | | | | | | | | | |
| 61a | Cerebro-spinal fever | | 1 | | | | | | | | | | 1 | | | | | |
| 63a | Acute poliomyelitis | | | | | | | | | | | | | | | | | |
| 71 | Convulsions | 1 | 1 | | | | | | | | | | | 1 | | | . 1 | |
| 76 | Diseases of the ears | 2 | | | | | | | | | | | 1 | 1 | | | 2 | |
| 79 | Organic diseases of the heart, | | | | | | | | | | | | | | | | | |
| 89 | Acute bronchitis | 7 | 6 | | | | | | -1 | 2 | | | 1 | 1 | 2 | 4 | 3 | |
| 91 | Broncho-pneumonia | | | | | 2 | | 2 | 2 | | 4 | 2 | 9 | 2 | 4 | 14 | 9 | 3 |
| 92 | Pneumonia | .18 | | | | | | 2 | | | 1 | 1 | 6 | 3 | 4 | 9 | 6 | 1 |
| 93 | Pleurisy | 1 | | | | | | | | | | | | | 1 | 1 | | |
| 103 | Other diseases of stomach | 2 | 1 | | | | | | | | | | 1 | | 1 | 1 | 1 | |
| 104 | Diarrhea and enteritis | 15 | 14 | | | | 1 | 1 | 1 | | 2 | 2 | 5 | 1 | 2 | 4 | 9 | 3 |
| 108 | Appendicitis and typhlitis | | | | | | | | | | | | | | | | | |
| | | 1 | I | | 1 | | | l | l | l | 1 | 1 | 1 | | l | l | | |

VITAL STATISTICS.

February, 1913, Infant Mortality.—Concluded.

| Class | | | UARY ALS, DER | | | | Week. | | | Month. | IS. | .81 | ig. | 13. | hs. | 2 W | GED EEKS OVER. | |
|--------------------------|---|----|---------------------|--------------|--------------|--------------|-------------|---------------|---------------|--------------|----------------|----------------|----------------|----------------|-----------------|-------------|----------------------|--------------|
| Detailed List Number. | Causes of Death. | | EAR. | Under 1 Day. | I to 2 Days. | 2 to 3 Days. | 3 Days to 1 | 1 to 2 Weeks. | 2 to 3 Weeks. | 3 Weeks to 1 | I to 2 Months. | 2 to 3 Months. | 3 to 6 Months. | 6 to 9 Months. | 9 to 12 Months. | Breast Fed. | Bottle Fed. | Nonresidents |
| 109 | Hernias, intestinal obstruction, | 1 | | | | | | | | | 1 | | | | | 1 | | |
| 117 | Simple peritonitis | | | | | | | | | | | | | | | | | |
| 119 | Acute nephritis | 1 | | | | | | | | | | | | | 1 | | . 1 | |
| 143 | Furuncle | | | | | | | | | | | | | | | | | |
| 144 | Acute abscess | 2 | 2 | | | | | | | | | | 2 | | | | 2 | |
| 145 | Other diseases of skin, etc | 1 | | | | | | | | 1 | | | | | | | 1 | |
| 150a | Hydrocephalus | 1 | , | 1 | | | | | | | | | | | | | | |
| b | Congenital malformations of heart. | 10 | | | 3 | 1 | 1 | 1 | | 2 | | • • • | | | | | 3 | |
| С | Other malformations | 2 | | | • • • | | • • • | | • • • | | | | | 1 | | | 2 | |
| 151a | | 34 | 31 | 16 | 1 | 2 | 5 | | | | | | • • • | | | 2 | | 7 |
| b | Congenital debility | 10 |) 9 | | | | 1 | 2 | 2 | | 4 | | , | 1 | | 3 | 4 | |
| 152a | Injuries at birth | 6 | 14 | 2 | 2 | | 1 | 1 | | | | | | | | ; • • • | | |
| b | Other causes peculiar to early infancy. | 8 | 10 | 1 | | 2 | . 1 | 1 | 1 | | 2 | | • • ; | | | 2 | 1 | |
| 167 | cepted). | | 2 | | | | | • • • | | | | | | | | **** | | |
| 168 | Absorption of deleterious gases, | | 1 | | | | | | | | | | | | • • • | | | |
| 172 | Traumatism by fall | 1 | 1 | | | | | | | | | | | | 1 | | 1 | 1 |
| 182 184 | Homicide | 1 | | 1 | | • • • | | | | ••• | | | | | | | | |
| 187 189 | Ill-defined diseases | 7 | 1 | | 1 | | | | | | | 4 | 2 | | . , . | 3 | 3 | |
| | Other causes | 4 | 11 | | | 1 | | 1 | | | | 1 | 1 | | | 2 | | |
| | Breast fed * | 60 | 30 | | | | | | 7 | 3 | 10 | 5 | 17 | 6 | 12 | 60 | | 1 |
| | Bottle fed * | 68 | 90 | | | | | | 4 | 5 | 11 | 7 | 19 | 10 | 12 | | 68 | 15 |
| | Nonresidents | 21 | 16 | 1 | | 1 | 3 | | . 1 | 2 | 3 | 1 | , 3 | . 2 | 4 | 1 | 15 | 21 |

^{*} Aged two weeks and over.

Additional Deaths for Other Months.

Jan., 1912.—1 male; pneumonia; white; aged 60 years; condition unknown; residence unknown; birthplace unknown, birthplace of mother unknown.

1 male; homicide by other means; white; aged 1 day minus; single; residence Ward 12; born in United States; mother born in Canada.

DIVISION OF COMMUNICABLE DISEASES, FEBRUARY, 1913.

Medical Inspectors. New cases visited: Diphtheria: 115 a. Isolation . b.Diagnosis 6 Scarlet fever: a. Isolation . 150 b. Diagnosis 15 87 c. Release . Measles: a. Isolation . 9 Diagnosis 4 Smallpox: . 1 Leprosy 1 Varicella: a. Isolation . 0 b. Diagnosis 5 Ophthalmia neonatorum. 8 Tuberculosis . . . 32 Typhoid fever . 13 Deaths investigated. 15 . . Vaccinations performed . . . 5 Certificates of vaccination issued. Nurses. New cases visited: Diphtheria. 146 Scarlet fever 149 Measles . . 801 Varicella 140 Typhoid fever . 19 Whooping cough 120 Ophthalmia neonatorum. 77 Mumps 67 Cerebro-spinal meningitis . 3 Trachoma Released cultures taken for diphtheria 136

(48)

| old cases visited: | | | | | | | | |
|--------------------|-------|------|-------|------|------|------|--|------------|
| Diphtheria . | | | | | | | | 238 |
| Scarlet fever | | | , | | | | | 547 |
| Measles . | | | | | | | | 632 |
| Varicella . | | | | | | | | 90 |
| Typhoid fever | | | | | | | | 3 3 |
| Whooping coug | | | | | | | | . 80 |
| Ophthalmia neo | | | | | | | | 147 |
| Mumps . | | | | | | | | 2 |
| Cerebro-spinal r | | | | | | | | |
| | | | | | | | | |
| | | I |)isin | fect | ions | | | |
| Diphtheria . | | | | | | | | 171 |
| Scarlet fever | | | | | | | | 142 |
| Tuberculosis | . 0 | | | | | | | 190 |
| Infected bedding | | | | | | | | 1 lot |
| Infected books, | | | | | | | | 5 lots |
| Infected carriag | es, e | etc. | | | | | | 4 |
| | | | | | | | | |
| | I | For | cible | Re | mov | als. | | |
| Tuberculosis | | | | | | | | .2 |
| Scarlet fever | | | | | | | | 1 |
| Diphtheria . | | | | | | | | |
| Typhoid fever | | | | | | | | 2 |

Cases Reported.

| Wards. | Anterior Poliomyelitis. | Actinomycosis. | Asiatic Cholera. | Bubonic Plague. | Cerebro-spinal Meningitis. | Diphtheria. | Glanders. | Leprosy. | Malaria. | Malignant Pustule. | Measles. | Mumps. | Ophthalmia Neonatorum. |
|-------------------------------|----------------------------|----------------|------------------|-----------------|-------------------------------|-------------|-----------|----------|----------|-----------------------|----------|---------|---------------------------|
| 1 | | | | | | 8 | | | | | 4 | 1 | 1 |
| 2 | | | | | | 19 | | | | | 14 | 5 | 10 |
| 3,, | | | | | | 5 | | | | | 1 | 5 | |
| 4 | | | | | | 3 | | | | | 5 | | |
| 5 | | | | | | 2 | | | | | 2 | | |
| 6 | | | | | | 10 | | | | | 71 | 14 | 10 |
| 7 | | | | | | 2 | | | | | 35 | | 5 |
| 8 | | | | | | 14 | | | | | 110 | 3 | 15 |
| 9 | | | | | 1 | 6 | | | | | 30 | 1 | 5 |
| 10 | | | | | | 3 | | | | | 81 | 1 | 3. |
| 11 | | | | | | 4 | | | | • • • • | 86 | 6 | 1 |
| 12., | | | | | | 8 | | | | | 33 | 1 | 6 |
| 13 | | | | | | 2 | | | | | 10 | 2 | 6 |
| 14 | | | | | | 8 | | | | | 29 | 2 | 2 |
| 15 | | | | | 2 | 6 | | | | | 10 | | 5 |
| 16 | | | | | | . 7 | | | | | 46 | 3 | 4 |
| 17 | | | | | | . 9 | | | | | 35 | 7 | 2 |
| 18 | | | | | | . 9 | | | | | 27 | | 4 |
| 19 | | | | | | · 4 | | | | | 38 | | 2 |
| 20 | | | | | | 12 | | | | | 107 | 5 | 8- |
| 21 | | | | | | 7 | | | | | 39 | 2 | |
| 22 | | | | | | 14 | | | | | 28 | 2 | . 2 |
| 23 | | | | | | 7 | | | | | 9 | | |
| 24 | | | | | | 3 | | | | | 35 | 1 | 4 |
| 25 | | ,. | | | | 3 | | | | | 1 | 6 | |
| 26 | | | | | | 2 | | | | | 1 | • • • • | 1 |
| Total | | | | | 3 | 177 | | | | | 887 | 67 | 96 |
| Unknown | | | | | | | | | | | | | |
| Nonresidents | | | | | 1 | 9 | | | | | 4 | | |
| Grand total | | | | | 4 | 186 | | | | | 891 | 67 | 96 |
| Corresponding month last year | 2 | 1 | | | 5 | 165 | | | | | 670 | 32 | 104 |

Included in the nonresidents were the following cases, brought to Boston

COMMUNICABLE DISEASES.

Cases Reported.

February, 1913.

| Scarlet Fever. | Smallpox. | Tetanus. | Trachoma. | Trichinosis. | Tuberculosis (Pulmonary and Miliary). | Tuberculosis (Other Forms). | Typhoid Fever. | Typhus Fever. | Varicella. | Whooping Cough. | Yellow Fever. | Wards, |
|----------------|-----------|----------|-----------|--------------|---|-----------------------------|----------------|---------------|------------|-----------------|---------------|------------------|
| 12 | | | | | 6 | | 1 | | 2 | 9 | | 1 |
| 7 | | | | | 5 | | 2 | | 5 | 3 | | 2 |
| 2 | | | | | 1 | | | | 4 | 1 | | |
| 1 | | | | | 4 | | | | 1 | 1 | | 4 |
| 1 | | | | | 2 | | | | 5 | 2 | | 5 |
| | | | | , | 16 | 2 | 1 | | 3 | 6. | | 6 |
| | | | 1 | | 15 | | 3 | | 2 | 3, | | 7 |
| 5 | | | 2 | | 14 | | 2 | 1 | 11 | 6 | | 8 |
| 7 | | | | | 16 | 1 | | | 3 | 8 | | 9 |
| 1 | | | | | 10 | 2 | | | 1 | | | 10 |
| 4 | *, * * * | | | | 9 | 1 | | | 5 | | | 11 |
| 15 | | | | | 16 | | | | 4 | 12 | | |
| 3 | | | | | 5 | | | | 1 | 6 | | |
| 12 | | | | | 10 | | | | 4 | 6 | | |
| 5 | | | | | 3 | I | | | 7 | 10 | | |
| 6 | | | | | 9 | | 1 | | 6 | 14 | | |
| 11 | | | 1 | | 8 | 2 | 1 | | | 19 | | |
| 1 | | | | | 12 | 1 | 2 | | 6 | 1 | | |
| 6 | | | | | 16 | | 1 | | 3 | 1 | | |
| 22 | | | | | 5 | 1 | 2 | | 24 | 13 | | |
| 9. | | | | | 5 | | 1 | | 9 | 9 | | |
| 5 | | | | | 4 | 1 | 1 | | 6 | | | |
| 15 | • • • • | • • • • | | | 2 | | | | 4 | 1 | | |
| 5 | | | | * * . * * | 7 | | 3 | | 14 | 4 | | |
| 10 | | | 2 | | 3 | | | | 8 | 11 | | 25 |
| 3 | | | | | 1 | | | | 2 | | | 26 |
| 168 | | | 6 | | 204 | 12 | 21 | 1 | 140 | 146 | | Total |
| 1 | | | | | 2 | | | | | | | |
| 16 | | | 2 | | 7 | | 8 | | | | | Nonresidents |
| 10.7 | | | | | 910 | 10 | 20 | 1 | 140 | 140 | | Grand total |
| 185 | | | 8 | | 213 | 12 | 29 | 1 | 140 | 146 | | Corresponding |
| 124 | 1 | | 3 | | 288 | 43 | 14 | | 221 | 111 | | month last year. |

for treatment: measles, 4; scarlet fever, 16; diptheria, 9; typhoid fever, 8.

| DIVISION OF CHILD HYGIENE.—FEBRUARY, 1913. |
|---|
| 1. Medical Inspection of Schools. |
| Number inspections made |
| There were 1,523 pupils excluded from schools, ill with the |
| following diseases: Diphtheria |
| Scarlet fever |
| Whooping cough |
| Scarlet fever 3 Pediculosis 808 Measles 24 Acute or purulent conjunctivitis 35 Chicken pox 24 Ringworm 38 Whooping cough 9 Scabies 32 Mumps 24 Impetigo 48 Pulmonary tuberculosis 3 Erysipelas 4 Acute tonsilitis 110 Miscellaneous 344 Influenza 7 |
| There were 14,419 cases of noncontagious disease found during the month, subdivided as follows: |
| Diseases of oral and respiratory tract 3,555 Diseases of ear 144 Diseases of eye 487 Diseases of skin 609 Dental caries 4,150 Miscellaneous 5,474 |
| Diseases of eye |
| Dental caries |
| Miscellaneous |
| 2. Physical Examination of Licensed Minors. |
| There were 236 children between the ages of 14 and 16 |
| years examined during the month. Sixty-six were found to be without defects and 170 with defects as follows: |
| Hearing |
| Certificates were refused at this time to seven applicants. |
| 3. Pre=Natal and Post=Natal Work. Pre-Natal. |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| The following defective conditions were noted: |
| Varicose veins 4 |
| Mothers attended as follows: |
| Family physician |
| $Post	ext{-}Natal.$ |
| Number cases |
| Defective Conditions Noted. |
| Otitis media16Improper feeding39Cervical glandsOrthopedic defects.3Cervical abscessOphthalmia |
| (52) |

BACTERIOLOGICAL LABORATORY. Positive. Negative Unsatisfactory. GONORRHEAL OPHTHALMIA: Positive. Positive for diagnosis... Positive for release..... Negative for diagnosis... 136 0---Negative for release.... "No growth" cultures... TUBERCULOSIS: 17-1,930 Positive..... Negative..... Unsatisfactory..... 339 , *Positive.... 420 10 Negative. Unsatisfactory. BACTERIOLOGICAL MILK EXAMINATIONS. TYPHOID: Positive..... 2- 101 544 GLANDERS: 3,219 Positive.... Total..... Negative..... Unsatisfactory.... - 0--- 3 * K-L Vir. K. L. smear organisms, malaria, G-U. T. B., paratyphoid, pneumococci, leprosy, actinomycosis. INSPECTION OF MILK, VINEGAR, ETC. Examination as to Statute Requirements. Samples examined, milk from stores. " milk from wagons milk from wagons milk brought in by citizens. " milk for bacteriological examination. " vinegar. " butter and cheese. eggs. frankforts. 2.026 INSPECTION OF DAIRIES. Satisfactory * on first inspection Satisfactory on later inspection..... Unsatisfactory on first inspection. Unsatisfactory on later inspection. Total number of inspections..... 866 Dairies having milk rooms. 348 Dairies without milk rooms. 518 Number of cattle inspected. Number of dairies prohibited shipping milk to Boston because of insanitary conditions of premises..... *"Satisfactory" means having a score of at least 45 per cent. by the government score card. INSPECTED AT BRIGHTON ABATTOIR. Calves condemned (5)..... Sheep inspected..... Swine condemned (parts of 297) 2,119 lbs. INSPECTION OF PROVISIONS.— ARTICLES CONDEMNED. Meats. Miscellaneous. Veal (immature)..... 17 lbs. 5 lbs. | Candy (fermented)..... 19 lbs. Beef (tainted). Pork (tainted). Poultry (tainted)..... 170 lbs. 3 lbs. 4 lbs. SANITARY INSPECTION DIVISION. New reports.... New reports. Reinspections. New tenement house reports. Nuisances reported. Legal notices. Court cases. Fines. Tenements vacated. Milk applications approved. Stable hearings. 4,961 \$102 101 Stable hearings.....

| Stable permit withheld | 3 ' |
|---|-------------|
| Stable permits refused | 2 |
| Stable vacated | 1 |
| Stable permit revoked. Dump permits. | 1 |
| Dump permission | |
| QUARANTINE. Vessels inspected at quarantine. Total immigrants arriving in Boston. | 57 2,264 |
| | |

MONTHLY METEOROLOGICAL SUMMARY. Taken at Weather Bureau, Boston, February 1913.

| | | MPERATU DEGREES AHRENHE | 3 | midity. | itation. | Sun- | | WIND. | |
|--------|----------|-------------------------------|-------|-------------------|---------------------|-----------------------------|--|----------------------------------|--------------------------|
| Day. | Maximum. | Minimum. | Mean. | Relative Humidity | Daily Precipitation | Actual Hours Sun- shine. | Average Hourly Velocity. (Miles.) | Maximum Velocity. (Miles.) | Prevailing Direction, |
| 1 | 56 | 19 | 38 | 42 | .35 | 9.1 | 23.1 | 39 | w. |
| 2 | 31 | 17 | 24 | 56 | 0 | 10.1 | 14.5 | 23 | · w. |
| 3 | 34 | 24 | 29 | 78 | .54 | 0 | 8.2 | 18 | s. w. |
| 4 | 36 | 24 | 30 | 62 | 0 ~ | 9.3 | 10.1 | 19 | w. |
| 5 | 28 | 16 | 22 | .51 | 0 . | 8.9 | 14.3 | 26 | w. |
| 6 | 24 | 14 | 19 | . 50 | 0 | 8.6 | 13.8 | 26 | w. |
| 7 | 24 | 10 | 17 | 57 | . 0 | 103 | 13.6 | 22 | w. |
| 8 | 32 | 18 | 25 | 56 | 0 | 6.9 | 15.7 | 24 | s. w. |
| 9 | 27 | . 12 | 20 | 55 | 0 | 9.4 | 14.0 | 27 | w. |
| 10 | 23 | 3 | 13 | 40 | 0 | 10.4 | 10.8 | 25 | N. W. |
| 11 | 37 | 15 | 26 | . 74 | .14 | 0 | 8.8 | 19 | s. w. |
| 12 | 34 | 9 | 22 | 51 | . 0 | 10.0 | 16.8 | 31 | · w. |
| 13 | 25 | 4 | 14 | 44 | 0 | 10.3 | 11.5 | 20 | w. |
| 14 | 41 | 18 | 30 | 51 | 0 | 10.6 | 11.6 | 19 | s. w. |
| 15 | 45 | 28 | 36 | 56 | .0 | 9.2 | 8.5 | 13 | w. |
| 16 | 42 | - 31 | 36 | 90 | T | 6.7 | 4.7 | 9 | E. |
| 17 | 36 | 20 | .28 | 76 | .05 | 3.5 | 9.6 | 24 | . N. |
| 18 | 31 | 14 | 22 | 42 | 0 | 9.4 | 18.1 | 28 | N. W. |
| 19 | 42 | 16 | 29 | 36 | 0 | 10.8 | 8.6 | 18 | w. |
| 20 | 60 | 33 | 46 | . 56 | 0 | 6.6 | 7.7 | 16 | s.w. |
| 21 | 58 | .39 | 48 | 56 | -0 | 5.6 | 8.7 | 14 | w. |
| 22 | 43 | 35 | 39 | 90 | .94 | 0 | 8.8 | 24 | E. |
| 23 | 40 | 18 | 29 | 60 | T , | 4.7 | 15.8 | 31 | . W. |
| 24 | 29 | 15 | 22 | 54 | 0 | 10.7 | 12.3 | 20 | N. W. |
| 25 | 26 | 10 | 18 | 52 | 0. | 9.8 | 10.9 | 20 | N. W. |
| 26 | 33 | 15 | 24 | 49 | Т | 8.8 | 8.8 | 14 | w. |
| 27 | 36 | 27 | 32 | 74 | .88 | 0 | 7.0 | 17 | N. |
| 28, | 43 | 32 | 38 | 89 | .09 | 3.2 | 7.3. | 17 | E. |
| Totals | _ | | | | 2.99 | 202.9 | | | - |
| Means | 36.3 | 19.1 | 27.7 | 58.8 | 0.11 | 68% | 11.6 | 1st | W. |

Latitude 42 degrees 21 minutes.

Longitude 71 degrees 4 minutes.

BOSTON WARD MAP.





MONTHLY BULLETIN

Rec'd

OF THE

HEALTH DEPARTMENT

OF THE

CITY OF BOSTON



| | | | | eth . | | PA | GE |
|----------------------------|--|--|--|-------|--|----|----|
| Diphtheria | | | | | | | |
| Vital Statistics for March | | | | | | | |
| Monthly Reports | | | | | | ٠. | 78 |

CITY OF BOSTON PRINTING DEPARTMENT 1913

ORGANIZATION OF THE HEALTH DEPARTMENT

FRANÇIS X. MAHONEY, M. D., Chairman. P. H. MULLOWNEY, M. D. V.

F. H. SLACK, M. D., Secretary.



MONTHLY BULLETIN

OF THE

HEALTH DEPARTMENT OF THE CITY OF BOSTON.

All communications relating to this publication should be addressed to Bulletin of the Health Department, 100 Summer St., Boston.

Vol. 2.

Boston, March, 1913.

No. 3.

DIPHTHERIA.

.By Frederick J. Bailey, M. D. Medical Inspector, Boston Health Department.

AN ANALYSIS OF THE DEATHS FROM DIPHTHERIA OCCUR-RING IN THIS CITY DURING THE YEAR 1912.

The following table shows the total number of deaths and cases reported during the year 1912:

| 1912. | Number of Cases Reported. | Number of Deaths. | Annual Case Fatality. |
|-----------|---------------------------------|-------------------|-----------------------------|
| January | 183 | 21 | |
| February | . 165 | 9 | |
| March | 127 | 11 | |
| April | 118 | 9 | |
| May | 133 | 6 | |
| June | 93 | 7 | |
| July | 77 | 5 | |
| August | 93 | 4 | |
| September | 100 | 4 | |
| October | 111 | 6 | |
| November | 168 | 5 | |
| December | 171 | 15 | |
| Total | 1,539 | 102 | 6.639 |

The entire number of deaths during this year were investigated, but in only sixty-five could a complete history be obtained. These latter are included in this series. The remaining deaths could not be considered here because the history obtained was insufficient or unreliable.

| December. | 21 27 27 27 27 27 27 27 27 27 27 27 27 27 |
|----------------|--|
| November. | 00 |
| October. | 196 170 173 183 183 184 185 187 187 187 187 187 187 187 187 187 187 |
| September | 101 |
| .tsuguA | 001 110 110 110 110 110 110 110 110 110 |
| July., | ### ### ############################## |
| June, | 222 186 118 118 118 118 118 118 118 118 118 |
| May. | 180 100 100 100 100 100 100 100 100 100 |
| ·lindA | 281 281 284 47 8 701 70 10 10 10 10 10 10 10 10 10 10 10 10 10 |
| March. | 08282 082844 044 8 8 8 8 8 01444 8 8 9 |
| February. | 172 173 173 174 175 175 175 175 175 175 175 175 175 175 |
| January. | 821-24 174-17 |
| Case Fatality. | 88 4 6 6 6 8 8 6 6 8 8 8 8 8 8 8 8 8 8 8 |
| Total Deaths. | 8 2 3 0 0 0 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Total Cases. | 2,108 2,453 103 103 120 122 222 124 43 140 140 140 160 160 160 160 160 160 160 160 160 16 |
| WARDS. | 1911 Cases 1910 Cases 1 |

| 111 18 18 18 19 18 19 18 18 18 18 18 18 18 18 18 18 18 18 18 | . 4 | ·27 - 27 - | ∞ ∞ | 8101 | + : :n : |
|--|---------------------------------|---------------------------|---------------------|---------------------|------------------------|
| - : : : : : : : : : : : : : : : : : : : | 24 :21 | | 10 | 4 :11 | 10 10 |
| 4151 :0: | | 23 | 10 | : : = | 9 : |
| ल ंटिनाठ | | 114 | 4 :- | :°° | ۵: |
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| 480.7 | : : | <u> </u> | <u> </u> | 2010 | |
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| | 70000 | 16 | | 12: 12: | 12: |
| 9 : 7 : 8 | | 10 | <u>:</u> | 18: 2 | <u> </u> |
| 10 | : | : | ο G | 13 | 100 |
| 6.35 2.65 8.26 | 3.45 | 5.08 | 3.95 | 2.67 | 16.50 |
| সা তে | | 10 10 | | C/1 1/2 | 17. |
| 63 113 | 58. | 197 | 76 | 75 | 103 |
| Cases Deaths Cases Deaths Cases | ses ses ses ses ses saths saths | ses ses ses aths | ses saths ses | ses saths ses | ses ses saths |
| | | | <u> </u> | <u> </u> | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | wn |
| 15 16 | 18 | 20 | 23 | 25 | Unknown. Nonresider |

The year 1912 shows a reduction both in number of cases and deaths. This gradual decline, which is quite apparent in late years, is evidence of the excellent result from the early use of antitoxin in this disease, and also because of isolation now insisted upon by health authorities.

Ward Distribution.

| Ward. | Number of Cases. | Number of Deaths. | Case Fatality. (Per Cent.) |
|--------------|------------------------|-------------------------|----------------------------------|
| 1 | 73 | . 6 | 8.22 |
| 2 | 82 | . 7 | 8.54 |
| 3 | 28 | 1 1 | 3.57 |
| 4 | 24 | 2 | 8.33 |
| 5 | 14 | | |
| 6 | 103 | . 8 | 7.77 |
| 7 | 31 | 1 | 3.23 |
| 8 | 114 | 3 | 2.63 |
| 9 | 32 | . 1 . | 3.13 |
| 10 | 30 | . 5 | 13.33 |
| 11 | · 20 | | |
| 12 | 97 | · 2 | 2.06 |
| 13 | 50 | 6 | 12.00 |
| 14 | 25 | 2 | 8.00 |
| 15 | 31 | 2 | 6.45 |
| 16 | 77 | 3 | 3.90 |
| 17 | 90 | 10 | 11.11 |
| 18 | . 28 | 6 | 21.43 |
| 19 | 89 | 6 | 6.74 |
| 20 | 136 | 9 | 6.62 |
| 21 | 95 | 4 | 4.21 |
| 22: | 62 | 2 | 3.23 |
| 23 | 40 | . 2 | 5.00 |
| 24 | 41 | 1.1 | 2.44 |
| 25 | 31 | 4 | 12.90 |
| 26 | 14 | 1 | 7.14 |
| Nonresidents | 80 | 8 | 10.00 |
| Unknown | 2 | | |

In such a series as we have here the number of cases in ward distribution appears too small from which to form any just conclusion. It is interesting to note, however, that in many of the wards with the highest number of cases the case fatality remains low.

SEASON.

Our series show an increase in the number of cases during the winter months. This is in accordance with nearly all statistics, which show clearly a similar condition at this time of year. A cause for this may be found in the closer contact of children, due to overcrowding, etc., and to a lowered immunity brought about by unhygienic environments, such as uncleanliness, etc. The prevalence of catarrhal inflammation of the nose and throat at this time of the year must also be considered as increasing susceptibility to this disease.

SEX.

In this series of sixty-five deaths, forty-one were females and twenty-four were males. This is a marked increase among females.

It seems improbable, however, that sex should influence the mortality in these cases.

AGE.

The deaths occurring under five years of age were quite marked — there were forty-two, while ten of these were infants under one year of age. The condition we find here follows the well known fact that in nearly all communicable diseases the mortality is greatest among children under five years of age.

Source of Infection.

In four of these deaths infection followed exposure to cases existing in the same family. In many of the others there occurred similar cases in the immediate neighborhood and infection may be explained through the intermingling of children, etc.

Early and strict isolation of all cases is of the utmost importance in preventing the spread of this disease as large and frequent outbreaks occur where conditions favorable for its propagation are allowed to exist.

In this city all cases which remain at home are visited by a medical inspector of this department at once, and if isolation cannot be effectively carried out, the patient is removed to a hospital, either voluntarily or forcibly. Department nurses visit all these cases at frequent intervals, and insist that this isolation be constant until release.

Prognosis.

Neglect upon the part of parents in sending for a physician long after the child was first noticed ill is quite apparent in

the histories of these cases. It was found that a wait of at least a day and a half occurred before medical advice was sought. In one of these cases, in spite of the fact that throat symptoms were present for over a week, no physician was called and the child died without any treatment. In this case cultures from the nose and throat taken after death showed abundant Klebs-Lœffler bacilli present.

The prognosis in this disease depends upon its early recognition and proper use of antitoxin.

Doubtless many of the above deaths could have been avoided had the importance of "sore throat" been fully realized and an early diagnosis sought.

Erroneous Diagnosis by Physicians.

That the disease may not always be recognized in its earliest manifestations, even by physicians, is proven by the fact that among this series of sixty-five deaths nineteen were diagnosed at first as being other than diphtheria; "heat," "tonsillitis," "gall stones," "stomach cold," "cold," "croup," and "ptomaine," were some of the early diagnoses in these cases by attending physicians. In one case the diagnosis of "quinsy sore throat" was made, poultices were applied and prompt incision performed. Apparently we have here a very large percentage of cases in which a wrong diagnosis had been made, and as this is a very important factor in regard to treatment it is obvious that it was quite detrimental to the interest and welfare of these patients. I am sure that this condition is one to be regretted very much for there can be no doubt but that these patients were placed in great jeopardy by this unwarranted delay upon the part of the physicians. Symptoms of sore throat, even of the mildest type, should awaken fully the interest of every physician. He should realize that great responsibility rests upon him in these cases and he should determine upon an early, correct diagnosis. Diphtheria of a very malignant type may develop suddenly from an insidious onset, and this fact should always be borne in mind in considering a diagnosis.

CULTURAL DIAGNOSIS.

A smear should be taken, as in a large percentage of cases this has been of great aid in arriving at an early diagnosis.

Cultures were taken in these cases on the day of first visit in but twelve patients. In twenty-four others at least one and a half days elapsed before this important aid was brought into use. In twenty-nine cases no cultures were taken at all. Cultures taken in all of these cases would have rendered the diagnosis earlier and given these patients a better chance for life through the early administration of antitoxin. It seems strange that such a condition should exist in view of the fact that the Board of Health has culture stations distributed all over the city where these culture outfits may be obtained which are examined free of charge. Antitoxin is also distributed free at many of these stations. Innocent lives have been doubtless sacrificed through neglect in this matter.

Cultures should not only be taken early but should also be taken carefully. They should not be taken immediately after application of antiseptic solution to the nose and throat. If membrane is present, the edge or under surface is the proper place to apply the swab. If no membrane is present, the swab should be rubbed over the tonsils, pillars and pharyngeal wall. A culture from the nasal discharge should also be taken. If laryngeal symptoms are present, the swab should be taken as low down in the pharynx as is possible.

A culture should always be taken from a nasal discharge, especially if there exists excoriation about the nares.

DELAYED DIAGNOSIS.

Delay in diagnosis upon the part of the attending physician occurred in many of these cases, and was of considerable variation in the number of days. Investigation of these cases gave the following result:

| DAY OF DIAGNOSIS AFTER FIRST VISIT. | First Day. | Second Day. | Third Day. | | Fifth Day. | Sixth Day. | Eighth Day. |
|--|---------------|-------------|------------|---|------------|---------------|-------------|
| Number of cases | 31 | 12 | 5 | 8 | 4 | 1 | 1 |

In two cases diagnosis was not made by the attending physician during life. This was also true in one case wherein no medical assistance was sought. Diagnosis in these cases was made post mortem by means of cultures taken from nose and throat. It is plainly evident that a diagnosis was made in about 50 per cent of these cases on the first day. There can be no doubt but that each twenty-four hours' delay in deciding upon the correct diagnosis lessened greatly the chances of recovery of these patients. If recognition of the disease had been made early here, and appropriate treatment administered, many undoubedly would have recovered.

It is a well known fact that antitoxin given early will nearly

always prevent diphtheria from terminating fatally. This should be done at once upon the first visit of the physician. A delay should not occur until diagnosis has been confirmed by bacteriological tests. Introduction of antitoxin can do no harm in any case, and where a doubtful case proves to be positive it hastens greatly the termination of the disease. In the more virulent cases the attack is greatly modified and a fatal result avoided.

In this series there is evidence of marked neglect among the physicians in many of these cases. Total neglect is apparent in some cases, while serious delay occurred in others, thus jeopardizing greatly the lives of these innocent victims. It is common practice in cases referred to hospital to neglect giving antitoxin while at home. This custom should be stopped as precious time is lost in awaiting transportation to these institutions, which could well be utilized in combating the toxins constantly eliminated in this disease.

DELAYED TREATMENT.

These deaths were investigated in relation to delay by physicians in administering antitoxin. A separate division was made in regard to treatment of those which were referred to hospitals and of those which were treated at home.

Cases Referred to Hospital.

| | First Visit. | One Day. | Two Days. | Three Days. | Four Days. | None Administered. | Unknown. |
|---|--------------|----------|-----------|-------------|------------|-----------------------|----------|
| Duration of time from first visit of physician to treatment with antitoxin. | 4 | 3 | 1 | 2 | 1 | 29 | 2 |

We find here the large number of twenty-nine cases which received no antitoxin from the attending physician who referred the patient to hospital for treatment.

That the physician did not promptly refer these cases to the hospital may be seen from the following table:

| | First Visit. | One Day. | Two Days. | Three Days. | Four Days. | Five Days. | Six Days. | Seven Days. |
|--|--------------|----------|-----------|-------------|------------|------------|-----------|-------------|
| Duration of time from first visit of physician until sent to hospital. | 17 | 6 | 6 | 3 | 6 | 2 | 1 | 1 |

What appears like an unwarranted delay is evident in many of these cases, and by referring to the previous table we find that much time was lost in awakening to the proper care of these patients.

The cases which were treated at home seem to fare about the same. The following table shows this in detail:

| | No Antitoxin. | At First Visit. | One Day. | Two Days. | Three Days. | Four Days. |
|--|---------------|-----------------|----------|-----------|-------------|------------|
| Duration of time from first visit of physician to administration of antitoxin. | 4 | 7 | 7 | 1 | 2 | 2 |

This certainly is a condition which is not complimentary where faithful treatment is expected. Serious delay occurred here also, and in a few no antitoxin at all was administered, even though the disease was recognized.

LARYNGEAL DIPHTHERIA.

In our series here eighteen cases of laryngeal diphtheria were reported. Of this number twelve went to the hospital and six died at home. Investigation reveals the fact that in none of these cases treated at home was intubation performed. It is possible that there was no indication for this operation in any of these cases, but when it was not performed in a single instance it is at least suggestive of possible neglect.

IMMUNIZATION.

Out of a total of 277 persons directly exposed to these cases in but forty-four was immunization carried out. Investigation showed this was not due to objection upon the part of the exposed as but one person had refused. In most cases it was not even suggested by the attending physician.

Realizing the prophylactic effect of this treatment, it appears plain that great responsibility rests upon these physicians who neglect this important duty.

SUMMARY AND CONCLUSIONS.

Parents should become aware of the great danger from "sore throat." A physician should be called at once.

Physicians should realize the great responsibility that rests upon them in learning as early as possible the true diagnosis of every throat condition, however mild. The assistance of smears and cultures should be used in arriving at an early diagnosis.

Laryngeal diphtheria should be promptly diagnosed and intubation practised if necessary.

Immunization should be carried out wherever possible.

The great importance of an early diagnosis in all cases of diphtheria should be appreciated and antitoxin used freely and without delay.

Every case of so-called "Croup" should be viewed with suspicion until the diagnosis of diphtheria has been positively eliminated.

Because of the great frequency of "Nasal Diphtheria," cultures should be taken in all cases of nasal discharge occurring in children and babies with "cold in the head."

When in doubt, give antitoxin, as no possible harm can be done, and much valuable time and possibly a life may be saved.

SUMMARY OF VITAL STATISTICS FOR THE MONTH OF MARCH, 1913.

Boston had 1,162 deaths in March, 1913, compared with 1,183 for March of last year; and a death rate of 18.60 against 19.34 for March, 1912. Deaths of nonresidents numbered 129 against 139 a year ago. Deducting deaths of nonresidents the corrected death rate for March, 1913 was 16.54 against 17.07 for March, 1912.

Of deaths from reportable diseases the principal increases were diphtheria, 14, tuberculous meningitis, 10, cerebro-spinal meningitis, 4, typhoid fever, 3.

Other important differences were as follows:

March, 1913, decreases compared with March, 1912:

| | "Other disease | es" | | | | | | | | | | 24 |
|-----|-----------------|-------|-------|------|-------|-------|-------|-------|-----|---|--|-----|
| | Cancer . | | | 2 | | | | , | | , | | 17 |
| | Apoplexy | | | | | | | | | | | 12 |
| | Diarrhea and | ente | ritis | (und | ler 2 | year | s) | | | | | .12 |
| | Puerperal sept | icen | aia | 7 | | | | | | | | 8 |
| | Suicide . | | | | | | | | | | | |
| | Congential del | bilit | y and | d ma | lforn | aatio | ns | | | | | 6 |
| | Appendicitis | | | | | | | | | | | 5 |
| Mai | ch, 1913, incre | ases | com | pare | d wi | th M | [arch | , 191 | 12: | | | |
| | Broncho-pneu | mon | ia · | | | | | | | | | 20 |
| | Violent death | | | | | | | | | | | 14 |

Ward 11 had the lowest death rate, 9.58 and Ward 13 the highest, 24.64.

There were 12 less deaths under 1 year than in March, 1912, 15 more under 5 years, and 5 less over 60.

Total deaths under 1 year numbered 182, which is 14 less than the average number for March for the preceding 5 years.

Seventy-eight of these deaths were due to premature birth, congenital debility, malformations and other diseases peculiar to early infancy; 49 to pneumonia and broncho-pneumonia; 15 to reportable diseases, 14 to diarrhea and enteritis, and 26 to other causes.

Of these deaths under 1 year Ward 6 had the largest number, 21, and Ward 20 came next with 11.

One hundred and ten were over two weeks old and 62 of these were bottle fed.

GENERAL STATISTICS. Population, Ward Area, Persons to Acre, and Rates.

| | | us. | la- | | STILLBI | RTHS Ex | KCLUDED. |
|----------|---------------------|--------------------------|--|--|--|--|---|
| | Land Area in Acres. | Population, 1910 Census. | Persons to Acre of Land (Using Census Popula- tion.) | Population, Estimated, July 1, 1913.† | Death Rates, 1912. (Population, Estimated.)† | Birth Rates, 1911. (Population, Estimated.)† | Death Rates, 1912, of Children Under One Year, Per 1,000 Births, 1911. |
| * Boston | 27,674 | 686,092 | 24.8 | 735,399 | 16.17 | 25.99. | 119.35 |
| Wards 1 | 1,188 | 29,676 | 24.9. | 32,439 | 13.05 | 24.90 | 104.58 |
| 2 | 357 | 28,812 | 80.7 | 30,676 | 17.11 | 33.37 | 120.81 |
| 3 | 332 | 15,339 | 46.2 | 15,667 | 15.29 | 26.84 | 106.02. |
| 4., | 301 | 13,294 | 44.1 | 13,808 | 18.02 | 25.50 | 148.26 |
| 5 | 207 | 12,811 | 61.9 | 12,914 | 16.69 | 24.28 | 118.59 |
| 6, | 293 | 35,758 | 122.0 | 39,492 | 16.18 | 48.81 | 100.33 |
| 7 | 394 | 14,913 | 37.9 | 14,483 | 20.05 | 26.57 | 94.39 |
| 8 | 171 | 32,430 | 189.6 | 33,479 | 12.07 | 33.21 | 70.64 |
| 9 | 186 | 26,427 | 141.5 | 29,214 | 15.13 | 27.40 | 106.24 |
| 10 | 394 | 25,320 | 64.3 | 26,277 | 11.86 | 10.51 | 114.81 |
| 11 | 663 | 27,444 | 41.4 | 30,738 | 9.69 | 14.22 | 63.73 |
| 12 | 235 | 24,294 | 103.4 | 25,948 | 14.98 | 14.57 | 181.82 |
| 13 | 611 | 21,561 | 35.3 | 21,501 | 17.24 | 31.11 | 117.91 |
| 14 | 405 | 23,584 | 58.2 | 24,527 | 14.44 | 24.14 | 115.92 |
| 15 | 277 | 21,216 | 76.6 | 21,803 | 14.80 | 20.25 | 119.82 |
| 16 | 564 | 25,633 | 45.6 | 28,033 | 12.75 | 24.23 | 110.42 |
| 17 | 460 | 26,426 | 57.4 | 27,793 | 15.49 | 25.65 | 117.22 |
| 18 | 220 | . 22,735 | 103.3 | 23,133 | 17.08 | 25.08 | 99.30 |
| 19 | 760 | 31,714 | 41.7 | 33,332 | 13.77 | 22.77 | 111.41 |
| 20 | 1,716 | 55,720 | 32.5 | 64,723 | 12.97 | 20,33 | ‡158.90 |
| 21 | 640 | 30,511 | 20.5 | 33,085 | 13.54 | 17.53 | 85.14 |
| 22 | 760 | 29,975 | 38.1 | 31,403 | 12.50 | 20.55 | 100.48 |
| 23 | 7,617 | 30,668 | 4.0 | 33,423 | 12.13 | 19.93 | 94.94 |
| 24 | 3,252 | 37,749 | 11.6 | 41,695 | 12.63 | 23.73 | 103.11 |
| 25 | 2,740 | 26,575/ | 9.7 | 29,661 | 11.95 | 24.73 | 96.21 |
| 26 | 2,869 | 15,507 | 5.4 | 16,152 | 12.29 | 29.59 | 107.30 |

^{*} Hyde Park was annexed to Boston January 1, 1912, and became Ward 26. Under

[&]quot;Boston," in the above table, Hyde Park statistics are included.

† Population estimated by arithmetical method, using the censuses of 1905 and 1910.

‡ An infant asylum is located in this ward.

VITAL STATISTICS.

March. General Summary.

| | | | | 1913. | 1912. |
|------------------------|-----|--|--|---------|---------|
| Total deaths | | | | 1,162 | 1,183 |
| Population, estimated* | | | | 735,399 | 720,031 |
| Death rate per 1,000 | . • | | | 18.60 | 19.34 |
| Deaths of nonresidents | | | | 129 | 139 |
| Corrected death rate† | | | | 16.54 | 17.07 |

^{*}Population estimated by arithmetical method, using the censuses of 1905 and 1910.

†Nonresidents not included.

March, 1913. Statement of Deaths.

| Total number | r (stillbirt | ths | ex- | | NATIVITY | | | |
|----------------|--------------|-----|------|-------|-------------------|-----|------|------|
| cluded) | | | | 1.162 | United States . | | | 710 |
| , | | | | -, | Ireland | | | 176 |
| | SEX. | | | | England and Wales | | | 34 |
| Males . | | | | 601 | Scotland | | * | 9 |
| | | | | | Germany | | | 21 |
| Females . | • • | • | ٠ | 541 | Canada | | | . 96 |
| | | | | | Italy | | | 21 |
| (| Condition | ₹. | | | Russia and Poland | | | |
| Single . | | | | 531 | Sweden and Norway | | | |
| Married . | | | | 405 | France | | | 4 |
| Widowed | | | | 210 | Other countries . | | | |
| | | | | | Unknown | * | | 13 |
| Divorced | | | | | NATIVITY OF M | OTE | ERS. | |
| Unknown | | ٠ | | 11 | United States . | | | 314 |
| | | | | | Ireland | | | 363 |
| | Color. | | | | England and Wales | | | 38 |
| White . | | ٠ | • | 1,127 | Scotland | | | 14 |
| Black (negro | or mixed) | 4 | | 31 | Germany | | | 31 |
| Chinese . | | | | 4 | Canada | | | 96 |
| Deaths of ch | | | | | Italy | | | 74 |
| | | | | 182 | Russia and Poland | | | . 86 |
| Under one | | | | | Sweden and Norway | | | 19 |
| Under two | | | | | France | | | 5 |
| Under five | years | | | 288 | Other countries . | | | 38 |
| Stillbirths du | uring the r | nor | nth, | 63 | Unknown | | | 84 |
| | | | | | | | | |

38

Ill-defined causes.....

| ears. | Years. | Years. | Years. | Years. | Years. | Years. | Years. | Years. | Years. | Years. | Years. | Years. | Years. | nd | | Sex. | ist mber. |
|-----------------|------------|------------|------------|------------|----------------|------------|------------|------------|--------------|------------|------------|------------|------------|--------------------|------------|------------|--------------------------------|
| 20 to 24 Years. | 25 to 29 Y | 30 to 34 Y | 35 to 39 Y | 40 to 44 Y | 45 to 49 Y | 50 to 54 Y | 55 to 59 Y | 60 to 64 Y | . 65 to 69 Y | 70 to 74 Y | 75 to 79 Y | 80 to 84 Y | 85 to 89 Y | 90 Years and over. | Males. | Females. | Abridged List Class Number. |
| 41 44 | 46 47 | 47 53 | 58 61 | 67 66 | 70 83 | 71 ·83 | 79 67 | 71 77 | 89 74 | 66 76 | 51 52 | 41 43 | 16 16 | 7 8 | 621 625 | 541 558 | |
| 1 | 2 | | | 1 | . . | | | | | | | | | | 3 | 1 | 1 |
| | | | | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | 4 |
| | | | , | | | | | | | | | | | | 5 | 6 | 5 |
| | | | | | | | | | | | | | | | 2 | 2 | 6 |
| | | | | | | | | | | | | | | | 2 | 5 | 7 |
| | | | | | | | | | 1 | | | | | | 12 | 13 | 8 |
| | | 1 | | 2 | | | | 2 | | | 1 | | | | 4 | 3 | 9 |
| | | 2 | 1 | | | | | | 1 | | | | | | 4 | 3 | 12 |
| 10 | 12 | 13 | 14 | 11 | 10 | 8 | 6 | 3 | 2 | | | | | | 62 | 40 | 13 |
| 1 | 1 | | | | | | · | | | , | | `. | | | 7 | 8 | 14 |
| - 1 | | 1 | 1 | | | | | | | | | | | | 3 | 3 | 15 |
| | 3 | 4 | 5 | 4 | 5 | 8 | 13 | 7 | 10 | 2 | 3 | | 1 | | 23 | 42 | 16 |
| | | | | | | | | | | | | | | | 5 | 2 | 17 |
| | 2 | | | | 1 | | | | | | | | | | 1 | 6 | 17a |
| | | | | 3 | 3 | 2 | 3 | 2 | 5 | 11 | 7 | 8 | 3 | 2 | 19 | 31 | 18 |
| 4 | 4 | 2 | 6 | 6 | 11 | 16 | 22 | 18 | 20 | 13 | 14 | 12 | 2 | 1 | 79 | 84 | 19 |
| | | | | | | | 1 | | 1 | 1 | 1 | | 1 | | 4 | 8 | 20 |
| | | | | | | | | | 1 | | 2 | 1 | | | -1 | 3 | 21 |
| 3 | 3 | 8 | 9 | 16 | 12 | 7 | 4 | 11 | 11 | 7 | 4 | 4 | 2 | | 91 | 50 | 22 |
| 1 | | | | | 6 | 1 | -1 | 2 | 1 | 4 | 2 | | 1 | 1 | 35 | 35 | 22a |
| | | 1 | | | | | 1 | 2 | | 2 | | 1 | | | 2 | 7 | 23 |
| 1 | , | ١ | | | | 1 | 1 | | 2 | 1 | | | | | 3 | 4 | 24 |
| | | | | | | | | | | | | | | | 11 | 4 | 25 |
| 1 | 1 | 1 | 1 | | | 2 | | | | | | | | | 4 | 3 | 26 |
| 1 | | | 1 | 1 | 2 | 1 | 1 | | 1 | 1 | 1 | | 1 | | 5 | 7 | 27 |
| | | | | 1 | 2 | 1 | | 1 | 1 | | | | | | 4 | 2 | 28 |
| 2 | 3 | 3 | 4 | 4 | 7 | 5 | 12 | 10 | 10 | 12 | 4 | 4 | 1 | | 49 | . 34 | 29 |
| 3 | 1 | | | | | | 2 | | | | | : | | | | 7 | 30 |
| 1 | 3 | 1 | | | | | | | | | | | | | | 5 | 31 |
| | 3 | 3 | | | | | | | | | | | | | | 6 | 32 |
| | | | | | | | | | : | | | | | | 34 | 20 | 33 |
| | | | | | | | | | | | | | | | | | 34 |
| 6 | 3 | 4 | 7 | 8 | 4 | 8 | 1 | 4 | 4 | 3 | . 2 | 1 | 3 | | 52 | 16 | 35 |
| | 1 | | 1 | 1. | | | | 1 | | | | | | | 2 | 2 | 36 |
| 5 | 4 | 3 | 7 | 9 | 7 | 11 | 11 | 8 | 18 | 9 | 10 | 10 | 1 | 3 | 91 | 78 | 37 |
| 1 | | | 1 | | | | | | | | | | | | 2 | 1 | 38 |

| Mai | | | | | | | | | | 11 | 101 6 | | Бу |
|--------------------------------|---|----------------|----------------|----------------|---------------|------------------|----------------|----------------|------------------|----------------|----------------|----------------|---------------|
| Abridged List Class Number. | CAUSES OF DEATH. | .0n. | | 1 | | | WARD | RESI | DENCE | | | | |
| Abric | | Boston | 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | 11. |
| | All causes | 1,162 | 37 | 39 | 25 | 21 | 24 | 48 | 26 | 45 | 44 | 30 | 25 |
| | Rates per 1,000 March, 1913 populationMarch, 1912 | 18.60 19.34 | 13.43 15.28 | 14.97 22.30 | 18.79 9.08 | $17.91 \\ 21.56$ | 21.88 21.02 | 14.31 19.96 | $21.14 \\ 17.72$ | 15.83 15.99 | 17.73 15.78 | 13.76 13.59 | 9.58 12.28 |
| 1 | Typhoid fever | 4 | | | | | | 1 | | | | | |
| 3 | Malarial fever | | | | | | | | | | | | |
| 4 | Smallpox | | | | | | | | | | | | |
| 5 | Measles | 11 | | | | | | 3 | 1 | | | 2 | |
| 6 | Scarlet fever | 4 | | | | | | | | 1 | | | 1 |
| 7 | Whooping cough | 7 | | | | | | 1 | | 1 | | | |
| 8 | Diphtheria and croup | 25 | 2 | 1 | 1 | | | 1 | | 1 | 1 | 1 | |
| 9 | Influenza | 7 | 1 | | | | | | | | | | |
| 12 | Other epidemic diseases | 7 | | 1 | | | | | - 1 | 1 | | | |
| 13 | Tuberculosis of the lungs | 102 | 1 | 7, | 2 | 3 | 2 | 1 | 3 | 7 | 6 | 2 | 1 |
| 14 | Tuberculous meningitis | 15 | | | | , | | - 1 | 1 | 1 | 1 | | |
| 15 | Other forms of tuberculosis | 6 | | | | | *.* * * * | | | | | | |
| 16 | Cancer, malignant tumor | 65 | » 1 | 1 | .1 | | 2 | 3 | 3 | 3 | . 1 | . 2 | |
| 17 | Simple meningitis (except | 7 | .2 | | | | | | | | | | |
| 17a | cerebro-spinal meningitis). Cerebro-spinal meningitis | 7 | | | | | | | | | | | |
| 18 | Apoplexy and softening of the | 50 | | 1 | 1 | 1 | | 1 | 1 | 4 | 2 | 2 | 1 |
| 19 | brain. Organic heart diseases | 163 | 6 | 5 | 4 | 3 | 4 | | 2 | 5 | 3 | 6 | 6 |
| 20 | Acute bronchitis | 12 | | | | | | 2 | | 1 | 2 | | |
| 21 | Chronic bronchitis | 4 | | | | | | | | | | 1 | |
| 22 | Pneumonia (except broncho- | 141 | - 1 | 2 | 7 | 5 | 5. | 13 | 2 | 5 | 7 | 3. | 1 |
| 22 a | pneumonia). Broncho-pneumonia | 70 | 2 | 4 | | 2 | 1 | 10 | 3 | 6 | 2 | | 2 |
| 23 | Other respiratory diseases | 9 - | | 2 | | | 1 | | | | | 1 | |
| 24 | Diseases of the stomach (cancer | 7 | | | | | | 1 | | | 1 | | |
| 25 | excepted). Diarrhea and enteritis (under | 15 | | 1 | | | | 1 | | | | | 1 |
| 26 | two years). Appendicitis and typhlitis | 7.7 | 1 | | | | 1 | | | | | | |
| 27 | Hernia, intestinal obstruction, | 12 | | 1 | ' | 1 | | % | · 1 | | | | |
| 28 | Cirrhosis of liver | 6 | 1 | | | | | | 1 | | . 1 | | |
| 29 | Bright's disease and nephritis | 83 | 4. | 1 | -1 | | 1 | 1 | 1 | 1 | 4 | | 6 |
| 30 | Diseases of women (not cancer), | 7, | 1 | | | | | | | | 1 | | |
| 31 | Puerperal septicemia | 5 | | | | 1 | | | | | | | |
| 32 | Other puerperal diseases | 6 | | | | ., | | | | | | | |
| 33 | Congenital debility and mal- formations. | . 54 | 1 | 2 | 3 | 1 | | 2 | 2 | 3 | | 4 | 1 |
| 34 | Old age | | | | | | | | | | | | |
| 35 | Violent deaths | 68 | 3 | 3 | 1 | 1 | 2 | 1 | 1 | | 7 | | 1 |
| 36 | Suicide | 4 | | | | | | | | | | 1 | |
| 37 | Other diseases | 169 | 10 | 7 | 4 | 3 | 4 | . 5 | 3 | 3 | 5 | 5 | 4 |
| 38 | Ill defined causes | 3 | | | • • • • • | | 1 | | | 2 | | | |
| | Total deaths under one year | 182 | 5 | 6 | 3 | 2 | 2 | 21 | 10 | 10 | 5 | 5 | 4 |

Of deaths of non-residents from typhoid fever, measles, scarlet fever and diphtheria the following occurred occurred at sea.

March, 1913.

| - | | | | | | | | | | | | | | | | | | |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------------|---------------|----------|--------------------------------|
| | | | | | | WARI | RESI | DENCE | • | | | | | | Boston, Ward Unknown. | Nonresidents. | Unknown. | Abridged List Class Number. |
| 12. | 13. | 14. | 15. | 16. | 17. | 18. | 19. | 20. | 21. | 22. | 23. | 24. | 25. | 26. | Bost | Non | Unkı | Abrid Class |
| 39 | 45 | 40 | 33 | 34 | 48 | 40 | 60 | 82 | 48 | 31 | 49 | 53 | 39 | 17 | 3 | 129 | 8 | |
| 17.70 12.04 | 24.64 18.60 | 19.20 16.52 | 17.82 18.51 | 14.28 15.96 | 20.33 16.34 | 20.36 21.49 | 21.19 18.29 | 14.92 19.77 | 17.08 18.96 | 11.62 15.59 | 17.26 18.08 | 14.97 11.05 | 15.48 17.64 | 12.39 17.71 | | | | |
| 1 | | | | | | | 1 | | | | | | | | | 1 | | 1 |
| | | | | | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | | 4 |
| | | | 1 | | 2 | | | 1 | | | | | | | | 1 | | 5 |
| | | | ***** | 1 | 1 | | | | | | | | | | | | | 6 |
| ٠ | 1 | 1 | | 1 | | | | 1 | • • • • • | | | | 1 | | | • • • • | 1 | 7 |
| | 1 | 1 | 1 | 1 | | 2 | 3 | 3 | 2 | 1 | | | | | | 2 | | 8 |
| • • • • • | 2 | | | | | ••••• | • • • • • | 3 | | | 1 | | | | | | | 9 |
| 3 | 7 | 4 | 3 | 1 | 7 | 1 | 4 | 5 | | 3 | 4 | 6 | 3 | 2 | 1 1 | 10 | | 12 |
| | 1 | 2 | 9 | 1 | • | 1 | 1 | 1 | | 3 | - 1 | | 3. | 4 | | 13 | | 13 |
| | | 1 | | | | 1 | _ | | | | | 1 | 1 | | | 3 | | 15 |
| 2 | | 2 | 2 | 4 | 3 | | 4 | 7 | 4 | 7 | 3 | 2 | 3 | | | 5 | | 16 |
| | 2 | | | | | 1 | | | | 1 | | | | | | 1 | | 17 |
| | | | | | | 1 | | | 2 | | | | 1 | 1 | | 2 | | 17a |
| 1 | 2 | | 1 | 2 | | 1 | 5 | 3 | 3 | | 8 | 6 | 1 | | | 3 | | 18 |
| 12 | 8 | 10 | 7 | 4 | 8 | 8 | 3 | 14 | 6 | 5 | 6 | 9 | 5 | 3 | | 10 | 1 | 19 |
| 2 | | - 1 | | | | | | 1 | | | | 2 | | | | 1 | | 20 |
| 1 | | | | | 1 | | | | 1 | | | | | | | | | 21 |
| 4 | 7 | 2 | 6 | 2 | 4 | 7 | 10 | 15 | 6 | 7 | 4 | 3 | 3 | 2 | | 8 | | 22 |
| 1 | 1 | 2 | 1 | 1 | 4 | 3 | 3 | 2 | 5 | 2 | 3 | 3 | 1 | 1 | | 4 | 1 | 22a |
| | | | | | | | | | 1 | | 1 | | 1 | | | 2 | | 23 |
| | | | | | | 1 | | 1 | | | | 1 | | 1 | | 1 | | 24 |
| • • • • • | 1 | | | | 2 | 1 | | 1 | | . 1 | | 1 | | | | 5 | | 25 |
| | | | | | | + | 1 | 1 | | | | | | | | 3 | | 26 |
| 1 | | | 1 | | | | | | 1 | 1 | 1 | | | | | 5 | | 27 |
| 1 | 5 | 4 | 3 | 5 | 1 4 | 3 | 9 | 8 | 4 | | 4 | 1 | 4 | 3 | | 5 | | 29 |
| | | | | | | | | | | | 1 | | | | | 4 | | 30 |
| | | | | | | 1 | 1 | | | | . | 1 | | | | 1 | | 31 |
| | | 1 | 1 | | | 1 | 1 | | | | 1 | | | | | 1 | | 32 |
| 2 | 2 | | 1 | | 3 | 2 | 3 | 3 | | | 3 | . 4 | 3 | 1 | | 8 | | 33 |
| | | | | | | | | | | | | | | | | | | 34 |
| 3 | 1 | 1 | 2 | 3 | 1 | 4 | 7 | 2 | 1 | 1 | | 5 | 1 | · 1 | 1 | 12 | 2 | 35 |
| | | | | | 1 | | | | 1 | | | | | | | | 1 | 36 |
| 4 | 4 | 9 | 3 | 9 | 4 | _ 2 | 4 | 9 | 11 | 2 | 9 | 7 | 9 | 2 | 1 | 25 | 2 | 37 |
| | | | | | | | | | | | | | | - | | - | | 38 |
| 4 | 6 | 1 | 5 | 7 | 9 | 6 | 4 | 11 | 3 | 5 | 6 | 10 | 8 | 3 | | 19 | 2 | |

VITAL STATISTICS. March, 1913, Infant Mortality.

| Detailed List Class Number. | Causes of Death. | Ton UN 1 Y | RCH PALS, DER EAR. | Under 1 Day. | to 2 Days. | to 3 Days. | Days to 1 Week. | to 2 Weeks. | to 3 Weeks. | Weeks to I Month. | to 2 Months. | 2 to 3 Months. | to 6 Months. | to 9 Months. | to 12 Months. | Breast Fed. | Bottle Fed. | Nonresidents. |
|--------------------------------|--------------------------------|------------------|--------------------|--------------|------------|------------|-----------------|-------------|-------------|-------------------|--------------|----------------|--------------|--------------|---------------|-------------|-------------|---------------|
| A I | | 1915. | 1912. | ū | | 7 | 8 | - | 7 | 100 | = | 7 | 2 | 9 | 0 | Ē. | Ã | Z |
| | Total | 182 | 194 | 25 | 6 | 6 | 23 | 12 | 9 | 5 | 10 | 10 | 30 | 27 | 19 | 4 8 | 62 | 19 |
| | Male | 110 | 97 | 18 | 3 | 5 | 14 | 6 | 5 | 2 | 7 | 6 | 18 | 15 | 11 | 28 | 36 | 15 |
| | Female | 72 | 97 | .7 | 3 | 1 | 9 | 6 | 4 | 3 | 3 | 4 | 12 | 12 | 8 | `20 | 26 | 4 |
| | White | 177 | 186 | 26 | 6 | 6 | 23 | 12 | 9 | 5 | 10 | 10 | 30 | 24 | 18 | 47 | 59 | 18 |
| | Colored | 5 | 8 | 1 | | | | | | | | | | 3 | 1 | 1 | 3 | 1 |
| 1 | Typhoid fever | | | | | | | | | | | | | | | | | |
| 5 | Smallpox | | | | | | | | | | | | | | | | | |
| 6 | Measles | 1 | 2 | | | | | | | | | | | | 1 | | 1 | |
| . 7 | Scarlet fever | | | | | | | | | | | | | | | | | |
| 8 | Whooping cough | 4 | . 3 | | | | | | | | 1 | 1 | 2 | | | 2 | 2 | |
| 9 | Diphtheria and croup | 4 | 1 | | | | | | | | | 1 | 1 | 1 | 1 | 1 | . 3 | |
| 10 | Influenza | | | | | | | | | | | | | | | | | |
| 14 | Dysentery | | | | | | | | | | | | | | | | | |
| 18 | Erysipelas | 3 | 2 | | | | | | 2 | · 1 | | | | | | 2 | 1 | |
| 19 | Other epidemic diseases | | 1 | | | | | | | | | | | | | | | |
| 20 | Pus-infection and septicemia, | | 1 | | | | | | | | | | | | | , | | |
| 24 | Tetanus | | | | | ·. | | | | | | | | | | | | |
| 28 | Tuberculosis of the lungs | 2 | | | | | | | | | | | 1 | 1 | | | 2 | 1 |
| 29 | Acute miliary tuberculosis | | | | | | | | | | | | | | | | | |
| 30 | Tuberculous meningitis | 4 | | | | ٠ | | | | | | | 1 | 2 | 1 | 2 | 2 | 1 |
| 31 35} | Other forms of tuberculosis | | | | | | | | | | | | | | | | | |
| 36 | Rickets | | 1 | | | | | | | | | | | | | | | |
| 37 | Syphilis | 1 | 4 | 1 | | | | | | | | | | | | | أ أ | |
| 38 | Gonococcus infection | | | | | | | | | | | | | | | | | |
| 61 | Simple meningitis | 4 | 2 | | | | 1 | 1 | | | 1 | | 1 | | | 1 | 1 | 1 |
| 61a | Cerebro-spinal fever | | · 1 | | | | | | | | | | | | | | | |
| 63a | Acute poliomyelitis | | | | | | | | | | | | | | | | | |
| 71 | Convulsions | 1 | 4 | | | | | | | | | | | | 1 | | 1 | |
| 76 | Diseases of the ears | | 2 | | | | | | | | | | | | | | | |
| 79 | Organic diseases of the heart, | | | | | | | | | | | | | | | | | |
| 89 | Acute bronchitis | 6 | · 2 | | | | | | 2 | | 1 | 2 | 1 | | | 4 | 2 | |
| 91 | Broncho-pneumonia | 30 | 27 | | | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 6 | 5 | 8 | 14 | 12 | 1 |
| 92 | Pneumonia | 19 | 15 | | | | 1 | 1 | | | | 2 | 3 | - 2 | 5 | 10 | 7 | 1 |
| 93 | Pleurisy | | 1 | | | | | | | | | | | | | | | |
| 103 | Other diseases of stomach | 1 | 1 | | | | | | | | | | | 1 | | | 1 | |
| 104 | Diarrhea and enteritis | 14 | 24 | | | | | | 1 | | | | 7 | 6 | | 2 | 12 | 4 |
| 108 | Appendicitis and typhlitis | | | | | | | | | | | | | | | | | |

VITAL STATISTICS.

March, 1913, Infant Mortality.— Concluded.

| Class | | Тот | RCH ALS, DER. | | | | Week. | | | Month. | 13. | 13. | 13, | 13. | hs. | 2 W | GED EEKS OVER. | |
|--------------------------|--|-----|---------------------|--------------|--------------|--------------|-------------|---------------|---------------|--------------|----------------|----------------|----------------|----------------|-----------------|-------------|----------------------|--------------|
| Detailed List Number. | CAUSES OF DEATH, | | EAR. 1912. | Under 1 Day. | I to 2 Days. | 2 to 3 Days. | 3 Days to 1 | I to 2 Weeks. | 2 to 3 Weeks. | 3 Weeks to 1 | I to 2 Months. | 2 to 3 Months. | 3 to 6 Months. | 6 to 9 Months. | 9 to 12 Months. | Breast Fed. | Bottle Fed. | Nonresidents |
| 109 | Hernias, intestinal obstruction, | | 1 | | | | | | | | | | | | | | | |
| 117 | Simple peritonitis | | 1 | ' | | | | ñ | | | | | | | | | | |
| 119 | Acute nephritis | 1 | | | | | 1 | | | | | | | | | | | |
| 143 | Furuncle | | | l | | | | | | | | | | | | | | |
| 144 | Acute abscess | | 1 | | | | | | | | | | | | | | | |
| 145 | Other diseases of skin, etc | | . 1 | | | | | | | | | | | | | | | |
| 150a | Hydrocephalus | 1 | 1 | | | | | | | | 1 | | | | | | 1 | 1 |
| ь | Congenital malformations of heart. | 9 | 8 | 5 | 2 | | 1 | 1 | | | | | | | | |] | |
| c | Other malformations | 3 | 4 | | | | | 1 | | 1 | | | 1 | | | 1 | 1 | 1 |
| 151a | Premature birth | 32 | 32 | . 11 | 2 | 3 | 6 | 2 | .5 | .2 | 2 | 1 | 1 | | | 4 | . 4 | 3 |
| b | Congenital debility | 9 | 14 | | | | | 1 | | | 1 | | 3 | 3 | 1 | 1 | 7 | 3 |
| 1 52a | Injuries at birth | 12 | 10 | 6 | 2 | | 3 | 1 | | | | | | | | , | | |
| b | Other causes peculiar to early infancy. | 12 | 14 | 2 | | 1 | 8 | 1 | | | | | | | | | | 2 |
| 167 | Burns (conflagrations ex- | | 1 | | | | | | | | | | | | | | | |
| 168 | cepted). Absorption of deleterious gases, | 2 | | | | | | | | | | 1 | 1 | | | 2 | | |
| 172 | Traumatism by fall | | | | | | | | | | | | | | | | | |
| 182) 184 | Homicide | | | | | | | | | | | | | | | | | |
| 187 189 | Ill-defined diseases | 1 | 3 | | | | | 1 | | | | | | | | | | |
| | Other causes | 6 | 9 | | | 1 | 1 | | | | 1 | | 1 | 1 | | 2 | 2 | |
| | Breast fed * | 48 | 44 | | | | | | 6 | 3 | 5 | 7 | 11 | 11 | 5 | 48 | | 2 |
| | Bottle fed * | 62 | 74 | | | | | | 3 | 2 | 5 | 3 | 19 | 16 | 14 | | 62 | 11 |
| | Nonresidents | 19 | 13 | 1 | | | 3 | 2 | 2 | | 2 | | 6 | 3 | | 2 | 11 | 19 |
| | | | | | | | | 1 | | | | | | 1 | | | | |

^{*} Aged two weeks and over.

Additional Deaths for Other Months.

- Jan., 1913.—1 male; broncho pneumonia; white; aged 67 years; condition unknown; residence unknown; birthplace of mother unknown.
 1 male; Bright's disease; white; aged 50 years; condition unknown; residence Ward 8; born in Ireland; mother
- Feb., 1913.—1 male; angina pectoris; white; aged 30 years; condition unknown; residence Ward 9; born in United States; birthplace of mother unknown.
 - 1 female; organic disease of heart; white; aged 68 years; widow; residence Ward 2; born in Ireland; mother born in Ireland.
 - 1 female: pneumonia; white; aged 38 years; married; residence Ward 7; born in United States; mother born in Ireland.
 - female; other diseases of stomach (cancer excepted); white; aged 62 years; widow; residence Ward 20;
 - born in Ireland; birthplace of mother unknown.

 1 female; burns (conflagration excepted); white; aged 1 year; single; residence Ward 9; born in United States; mother born in Russia or Poland.
 - 1 male; nonvenereal diseases of the male genital organs; white; aged 22 years; condition unknown; residence unknown; born in Italy; mother born in Italy.
 - 1 male; accidental fall; white; aged 76 years; widower; residence Ward 19; born in United States; mother born in United States.
 - 1 male; accidental fall; white; aged 23 years; married; residence Ward 21; born in United States; mother
 - born in Germany.

 1 male; accidental fall; white; aged 48 years; married; residence Ward 20; born in United States; birthplace of mother unknown.

 1 male; sudden death; white; aged 50 years; condition unknown; residence Ward 13; birthplace unknown;

DIVISION OF COMMUNICABLE DISEASES, March, 1913.

Medical Inspectors. New cases visited: Diphtheria: 122 Diagnosis 21 Scarlet fever: Isolation . 174 Diagnosis *b*. 46 Release c. 34 Measles: Isolation . 13 Diagnosis Smallpox 0 Varicella: a. Isolation . 0 b. Diagnosis 7 Ophthalmia neonatorum. 12 Tuberculosis . . . 52 Typhoid fever . 13 Deaths investigated. 15 Vaccinations performed . 2 Certificates of vaccination issued . 1 Nurses. New cases visited: Diphtheria .. 183 Scarlet fever 194 Measles 992 Varicella 120 Typhoid fever . 12 Whooping cough 150 Ophthalmia neonatorum. 75 Mumps . . . 15 Cerebro-spinal meningitis Trachoma . 1 Released cultures taken for diphtheria

| ld cases visited: | | | | | | | | | | |
|--------------------------|--------|------|-------|-----|------|-----|-----|---|-----|-------|
| Diphtheria . | | | | | | | . , | | | 237 |
| Scarlet fever | | | | | | | | | | 439 |
| Measles . | | | | | | | | | | 159 |
| Varicella . | | | | | | | | | | 2 |
| Typhoid fever | | 4 | | | | ę | | | | 35 |
| Whooping cou | gh | | | | | 4 | | | . • | 4 |
| Ophthalmia ne | | | | | | | | | | 159 |
| Mumps . | | | | | | | | | | 0 |
| Cerebro-spinal | | | | | | | | | | 6 |
| | | D | isinf | ect | ions | | | | | |
| Diphtheria . | | | | | | | | | | 180 |
| Scarlet fever | | | | | | | | | | 177 |
| Tuberculosis | | | | | | | | | | |
| Infected books, | | | | | | | | | | |
| Infected carriag | zes, e | tc. | •. | | | | | | | 2 |
| Infected clothin | | | | | | | | | | - 4 . |
| | I | Fore | cible | P. | mov | ale | | | | |
| Tuberculosis | | OI (| | | | | | | | 4 |
| Scarlet fever | • | • | • | | | | | | | |
| Diphtheria . | • | • | • | • | • | • | • | • | • | 0 |
| | | | | | | | | | | |
| Typhoid fever Specific . | | | | | | | | | | |
| opecine . | | | | • | | | | • | | 1 |

Cases Reported.

| Wards. | Anterior Poliomyelitis. | Actinomycosis. | Asiatic Cholera. | Bubonic Plague. | Cerebro-spinal Meningitis. | Diphtheria. | Glanders. | Leprosy. | Malaria. | Malignant Pustule. | Measles. | Mumps. | Ophthalmia Neonatorum. |
|-------------------------------|----------------------------|----------------|------------------|-----------------|-------------------------------|-------------|-----------|----------|----------|-----------------------|----------|--------|---------------------------|
| 1 | | | | | | 8 | | | | | 3 | | 3 |
| 2 | | | | | | 11 | | | | | 7 | 4 | 10 |
| 3 | | | | | | 7 | | | | | 5 | 3 | 2 |
| 4 | | | | | | 1 | | | | | 21 | 2 | 1 |
| 5 | | | | | | 3 | | | | | 9 | 1 | 2 |
| 6 | | | | | , . | 14 | | | | | 53 | 42 | 14 |
| 7 | | | | | | 6 | | 1 | | | 20 | 2 | 1 |
| 8 | | | | | | 16 | | | | | 72 | 4 | 19 |
| 9 | | | | | | 7 | | | | | 39 | 6 | 9 |
| 10 | | | | | | 1 | | | | | 55 | 1 | 1 |
| 11 | | | | | | 5 | | | | | 110 | 5 | 1 |
| 12 | | | | | | 13 | | | | | 44 | 5 | 5 |
| 13 | | | | | 1 | 8 | | | | | 14 | 2 | 3 |
| 14 | | | | | 1 | 5 | | | | | 40 | 9 | 6 |
| 15 | | | | | | 3 | | | | | 7 | 8 | 3 |
| 16 | | | | | | 1 | | | | | 84 | 14 | 2 |
| 17 | | | | | | 7 | | | | | 48 | 5 | 3 |
| 18 | | | | | | 16 | | | | | 24 | 2 | 2 |
| 19 | | | | | | 7 | | | | | 13 | 4 | 4 |
| 20 | | | | | 1 | 16 | | | | | 218 | . 11 | 8 |
| 21 | | | | | 1 | 15 | | | | | 64 | 4 | 2 |
| 22 | | | | | | 9 | | | | | 50 | | 2 |
| 23 | | | | | | 6 | | | | | 75 | 1 | 1 |
| 24 | | | | | | 2 | | | | | 65 | 1 | |
| 25 | | | | | 1 | 5 | | | | | 8 | 11 | |
| 26 | | | | | 1 | 2 | | | | | 5 | | |
| Total | | | | | 6 | 194 | | 1 | | | 1,153 | 147 | 104 |
| Unknown | | | | | | | | | | | | | |
| Nonresidents | | | | | | 7 | | | | | 3 | | 5 |
| Grand total | | | | | 6 | 201 | | 1 | | | 1,156 | 147 | 109 |
| Corresponding month last year | 4 | | | | 6 | 127 | | | | 2 | 744 | 39 | 112 |
| Twol | ndod | in th | | nooid. | onta e | wore tl | o foll | lowin | | ag br | | to B | |

Included in the nonresidents were the following cases, brought to Boston

COMMUNICABLE DISEASES.

Cases Reported.

March, 1913.

| Scarlet Fever. | Smallpox. | Tetanus. | Trachoma. | Trichinosis. | Tuberculosis (Pulmonary and Miliary). | Tuberculosis (Other Forms). | Typhoid Fever. | Typhus Fever. | Varicella, | Whooping Cough. | Yellow Fever. | Wards, |
|----------------|-----------|----------|-----------|--------------|---|--------------------------------|----------------|---------------|------------|-----------------|---------------|--------------------------------|
| | 1 02 | L | H | - | | L | H | | <u> </u> | | 24 | |
| 10 | | | | | 4 | 1 | | | 1 | 8 | | |
| 7 | | | | | 24 | 2 | 3 | | 1 | 6 | | |
| 4 | | | | | 3 | | | | 3 | 3 | | |
| 1 | , | | | | 5 | | | | 7 | 4 | | 4 |
| | | | | | 9 | | | | 5 | | | 5 |
| 4 | | | 2 | | 13 | 1 | 5 | | 3 | 21 | | 6 |
| 1 | | | 2 | | 27 | | 1 | | 1 | 7 | | |
| 12 | | | 2 | | 24 | 4 | 1 | | 9 | 8 | | 8 |
| 8 | | | | | 17 | 1 | | | 6 | 15 | | 9 |
| 7 | | | | | 9 | 2 | | | 6 | 2 | | 10 |
| 5 | | | | | 8 | 1 | | | 11 | 1 | | 11 |
| 7 | | | | | 10 | | 2 | | 1 | 5 | | 12 |
| 7 | | | | | 14 | 2 | | | 6 | 10 | | |
| 10 | | | | | 6 | 2 | | | 5 | 11 | | |
| 1 | | | | | 11 | 1 | | | 9 | 4 | | |
| 13 | | | | | 4 | 1 | | | 12 | 17 | | |
| 7 | | | | | 9 | | | | 7 | 3 | | |
| 4 | | | | | 9 | | | | 9 | 22 | | |
| 11 | | | | | 13 | 1 | 1 | | 1 | 1 | | 19 |
| 22 | | | | | 15 | | | | 24 | 11 | | 20 |
| 13 | | | | | 11 | 1 | | | 8 | 6 | | 21 |
| 10 | | | | | 9 | 1 | | | 3 | 5 | | 22 |
| 11 | | | | | 7 | | | | 5 | 2 | | 23 |
| 22 | | | | | 13 | | | | 8 | 7 | | |
| 13 | | | 1 | | 10 | 2 | | | 8 | 20 | | 25 |
| 3 | | | | | 4 | 5 | | | 1 | | | |
| 213 | | | 7 | | 288 | 28 | 13 | | 160 | 199 | | Total |
| | | | | | | | | | | | | |
| 10 | | | 7 | | 14 | 4 | 1 | | 1 | 1 | | Nonresidents |
| 223 | | | 14 | | 302 | 32 | 14 | | 161 | 200 | | Grand total |
| 220 | | | 17 | | 502 | 02 | 17 | | 101 | 200 | | |
| 127 | | | 2 | 3 | 278 | 32 | 17 | | 212 | 102 | | Corresponding month last year. |

for treatment: typhoid fever, 1; diphtheria, 7; scarlet fever, 10; measles, 1.

DIVISION OF CHILD HYGIENE.— MARCH, 1913.

1. Medical Inspection of Schools.

| Number inspections made | | | 17,147 |
|-----------------------------------|--|--|--------|
| Number physical examinations made | | | 9,503 |
| Number visits made to homes . | | | 97 |

There were 1,343 pupils excluded from schools, ill with the following diseases:

| Diphtheria 1 Gonorrhœa | 1 |
|---|-----|
| Scarlet fever | 659 |
| Measles 18 Acute or purulent conjunc- | |
| German measles 4 tivitis | 50 |
| Chicken pox | 37 |
| Whooping cough | 27 |
| Mumps | 60 |
| Pulmonary tuberculosis . 2 Erysipelas | 1 |
| Acute tonsilitis | 250 |
| Influenza | |

There were 13,645 cases of noncontagious disease found during the month, subdivided as follows:

| Diseases of oral | and | respir | atory | tra | ct | | | | 1. | |
|------------------|-----|--------|-------|-----|----|---|--|-------|----|-------|
| Diseases of ear | | | | | | | | 4 | | 150 |
| Diseases of eye | | | | | | 1 | | | | 513 |
| Diseases of skin | | | | | | | | | | 669 |
| Dental caries | | 1 | | | | | | | | 3,289 |
| Miscellaneous | | . ` | | | | | | | | 5,723 |

Physical Examination of Licensed Minors.

There were 122 girls and 173 boys between the ages of 14 and 16 years examined during the month. Eighty-one were found to be without defects and 214 with defects as follows:

| Hearing | 1 | Pulmonary disease | | . 1 |
|---------------------------|-------|--------------------|--|-----|
| Eyesight | 27 | Cardiac disease . | | 4 |
| Defective nasal breathing | 7 | Orthopedic defects | | 6 |
| Hypertrophied Tonsils | 8 | Skin | | 2 |
| Defective teeth | 198 | Miscellaneous . | | 39 |

Eight certificates were withheld at this time.

3. Pre=Natal and Post=Natal Work.

Pre-Natal.

| Number cases Number visits Number babies bor | | | | | Number babies breast-fed . Number babies bottle-fed . | 9 2 |
|--|----|-----|-------|--------|--|-----|
| Mothers atten | de | d a | s fol | lows: | | |
| Family physician . | | | | 7 | Midwife | 1 |
| Hospital | | • | | 3 | | |
| | | | 1 | Post-I | Vatal. | |
| Number cases . | | | . 1 | ,682 | | 188 |
| Number visits . | | | . 3 | ,412 | Breast and bottle fed | 142 |

Sixty-three babies were not found, on account of change of address.

1,289

Breast-fed

| BACTERIOLOGICA | L LABORATORY. |
|---|--|
| DIPHTEERIA: Positive for diagnosis. 192 Positive for release. 112 Negative for release. 219 Negative for release. 299 "No growth" cultures. 21—2,014 TUBERCULOSIS: 87 Negative. 517 Unsatisfactory 0— 604 TYPHOID: 70 Positive. 4 Negative. 103 Atypical. 6— 113 GLANDERS: Positive. 0 Negative. 0 Negative. 2 Unsatisfactory 0— 2 * K-L Vir. T. B. pus, organisms, typhoid leprosy, anthrax. | Gonorreea: Positive |
| leprosy, anumax. | |
| · INSPECTION OF M | ILK, VINEGAR, ETC. |
| Examination as to S | tatute Requirements. |
| milk for pacteriological e | ns 638 ns 11 xamihation 634 111 146 |
| | |
| Cattle inspected | Calves condemned (39 whole) 1,330 lbs. Sheep condemned (5 whole) 589 lbs. Swine condemned (parts of 344), 2,839 lbs. |
| INSPECTION OF PROVISION | e apricipe compenses |
| Meats. | S.— ARTICLES CONDEMNED. Miscellaneous. |
| Veal (immature) 1,001 lbs. Mutton (tainted) 19 lbs. Beef (tainted) 185 lbs. Pork (tainted) 177 lbs. Poultry (tainted) 212 lbs. | Candies |
| | |
| New reports. Reinspections. New tenement house reports. Nuisances reported. Legal notices. Court cases. Fines. Tenements vacated. Milk applications approved. Stable permit granted. Dump permits granted. Dump permit refused. Dump permit revoked. | 222 6,692 519 20 \$138 5 138 4 |
| | |
| | NTINE. |
| Vessels inspected at quarantine Total immigrants arriving in Boston | 5,111 |

MONTHLY METEOROLOGICAL SUMMARY. Taken at Weather Bureau, Boston, March, 1913.

| | | MPERATU DEGREES AHRENHE | 3 | midity. | itation. | Sun- | | WIND. | |
|--------|----------|-------------------------------|------------|-------------------|---------------------|------------------------|--|----------------------------------|--------------------------|
| DAY. | Maximum. | Minimum. | Mean. | Relative Humidity | Daily Precipitation | Actual Hours Sunshine. | Average Hourly Velocity. (Miles.) | Maximum Velocity. (Miles.) | Prevailing Direction. |
| 1 | 46 | 38 | 42 | 90 | .22 | 0 | 7.1 | 14 | w. |
| 2 | 45 | 22 | 34 | 70 | .04 | 3.8 | 14.5 | 43 | w. |
| 3 | 39 | 19 | 29 | 53 | 0 | 5.5 | 13.4 | 24 | w. |
| 4 | 37 | 30 | 34 | : 86 | Т | 0 | 7.0 | 11 | · E. |
| 5 | 42 | 30 | 36 | 85 | 0 | 7.0 | 7.0 | 14 | N. W. |
| 6 | 44 | 19 | 32 | 75 | .20 | 2.5 | 14.1 | 37 | w. |
| 7 | 22 | 11 | 16 | 49 | 0 | 11.5 | 23.9 | 36 | w. |
| 8 | 34 | 10 | 22 | 44 | 0 | 11.4 | 10.7 | 17 | s. w. |
| 9 | 62 | 27 | 44 | 62 | 0 | 9.8 | 15,2 | 38 | s. w. |
| 10 | 52 | 39 | 46 | 66 | 0 | 8.1 | 10.3 | 22' | S. E. |
| 11 | 42 | 37 | 40 | 96 | .39 | 0 | 7.5 | 15 | E. |
| 12 | 45 | 36 | 40 | 63 | 0 | 11.8 | 8.7 | 15 | E., N. W. |
| 13 | 54 | 37 | 46 | 82 | T | 3.9 | 7.9 | 15 | s. |
| 14 | 60 | 38 | 49 | 69 | .64 | 0 , | 8.3 | 20 | s. w. |
| 15 | 66 | 56 | 61 | 94 | Т | 3.6 | 13.8 | 28 | s. w. |
| 16 | 61 | 31 | 46 | 92 | .31 | 1.3 | 11.1 | 29 | W. |
| 17 | 42 | 27 | 34 | 58 | 0 | 10.2 | 16.6 | 28 | w. |
| 18 | 50 | 25 | 38 | 49 | 0 | 11.4 | 12.5 | 26 | s. w. |
| 19 | 68 | 38 | 53 | 64 | 0 | 12.1 | 16.5 | 26 | s. w. |
| 20 | 57 | 43 | 50 | 96 | .41 | 0 | 5.6 | 14 | s. w. |
| 21 | 68 | 54 | 61 | 93 | .13 | 8.0 | 14.6 | 26 | s. w. |
| 22 | 59 | 33 | 46 | 82 | 0 | 12.2 | 18.0 | 35 | w. |
| 23 | 48 | 30 | 39 | 70 | 0 | 10.1 | 9.4 | 21 | w. |
| 24 | 68 | 42 | 55 | 73 | .01 | 7.8 | 23.5 | 46 | s. w. |
| 25 | 73 | 40 | 5 6 | 92 | 61 | 3.9 | 17.5 | 36 | s. w. |
| 26 | 43 | 36 | 40 | 98 | .56 | 0 . | 11.6 | 23 | N.E. |
| 27 | 67 | 35 | 51 | 84 | 1.13 | 0 | 19.6 | 42 | s. w. |
| 28 | 44 | 30 | 37 | 60 | 0 | 12.5 | 15.8 | 30 | w. |
| 29 | 43 | 28 | 36 | 52 | 0 | 11.7 | 9.2 | 18 | S.E. |
| 30 | 62 | 35 | 48 | 73 | 0 | 8.8 | 12.8 | 21 | S. |
| 31 | 66 | 44 | 55 | 94 | .16 | 4.0 | 17.8 | 30 | s. |
| Totals | | | | | 4.81 | 192.9 | | | |
| Means | 51.9 | 32.9 | 42.5 | 74.6 | 0.16 | 52% | 13.0 | 24th | s. w. |

Latitude 42 degrees 21 minutes.

Longitude 71 degrees 4 minutes.

BOSTON WARD MAP.





MONTHLY BULLETIN

OF THE



HEALTH DEPARTMENT

OF THE

CITY OF BOSTON



| | | | | | Page | |
|----------------------------|---|--|--|--|-------|--|
| Vital Statistics for April | , | | | | , 89 | |
| Monthly Reports | | | | | . 100 | |

CITY OF BOSTON PRINTING DEPARTMENT 1913

ORGANIZATION OF THE HEALTH DEPARTMENT

FRANCIS X. MAHONEY, M. D., Chairman. P. H. MULLOWNEY, M. D. V.

F. H. SLACK, M. D., Secretary.



MONTHLY BULLETIN

OF THE

HEALTH DEPARTMENT OF THE CITY OF BOSTON.

All communications relating to this publication should be addressed to Bulletin of the Health Department, 100 Summer St., Boston.

Vol. 2.

BOSTON, APRIL, 1913.

No. 4.

SUMMARY OF VITAL STATISTICS FOR THE MONTH OF APRIL, 1913.

Boston had 1,002 deaths in April, 1913, compared with 1,039 for April of last year; and a death rate of 16.58 against 17.56 for April, 1912. Deaths of nonresidents numbered 125 against 96 a year ago. Deducting deaths of nonresidents the corrected death rate for April, 1913 was 14.51 against 15.93 for April, 1912.

Of deaths from reportable diseases the principal decreases were tuberculosis (all forms) 15; typhoid fever, 2; and cerebrospinal meningitis, 2.

The principal increases were scarlet fever, 9; diphtheria, 4; and whooping cough, 3.

Other important differences were as follows:

April, 1913, decreases compared with April, 1912:

| Organic n | eart ais | ease, | Drig | gnts | aisea | ise a | na n | ephri | us | | 10 |
|-----------------|----------|--------|------|-------|-------|-------|------|-------|----|--|--------|
| Apoplexy | | | | | | | | | | | 8 |
| Pneumoni | ia . | | | | | | | | | | 7 |
| Appendici | tis . | | | | | | | | | | 5 |
| Violent de | eaths | | | | | | | | | | 4 |
| April, 1913, in | creases | comj | pare | d wit | h Ap | oril, | 1912 | : | | | |
| Congentia | debilit | y an | d m | alfor | mati | ons | | | | | 10 |
| Hernia an | d intest | inal | obst | ruct | ion | | | | | | 8 |
| Diarrhea | and ent | eritis | (un | der : | 2 yea | ars) | | | | | 5 |
| | | | | | | | | | | | |

Ward 23 had the lowest death rate, 8.37 and Ward 7 the highest, 21.

There were 10 more deaths under 1 year than in April, 1912, 19 more under 5 years, and 1 less over 60.

The total deaths under 1 year numbered 169, which is 5 less than the average number for April for the preceding 5 years.

Seventy-three of these deaths were due to premature birth, congenital debility, malformations and other diseases peculiar to early infancy; 31 to pneumonia and broncho-pneumonia; 25 to diarrhea and enteritis; 17 to reportable diseases; and 23 to other causes.

Of these deaths under 1 year Ward 6 had the largest number, 13, and Ward 1 and 8 came next with 11 each.

One hundred and ten were over two weeks old and 75 of these were bottle fed.

VITAL ȘTATISTICS.

GENERAL STATISTICS. Population, Ward Area, Persons to Acre, and Rates.

| | | ıs. | la- | | STILLBI | RTHS E | XCLUDED. |
|----------|---------------------|--------------------------|---|--|--|--|--|
| | Land Area in Acres. | Population, 1910 Census. | Persons to Acre of Land. (Using Census Population.) | Population, Estimated, July 1, 1913.† | Death Rates, 1912. (Population, Estimated.)† | Birth Rates, 1911. (Population, Estimated.)† | Death Rates, 1912, of Children Under One Year, Per 1,000 Births, 1911. |
| * Boston | 27,674 | 686,092 | 24.8 | 735,399 | 16.17 | 25.99 | 119.35 |
| Wards 1 | 1,188 | 29,676 | 24.9 | 32,439 | 13.05 | 24.90 | 104.58 |
| 2 | 357 | 28,812 | 80.7 | 30,676 | 17.11 | 33.37 | 120.81 |
| 3 | 332 | 15,339 | 46.2 | 15,667 | 15.29 | 26.84 | 106.02 |
| 4 | 301 | 13,294 | 44.1 | 13,808 | 18.02 | 25.50 | 148.26 |
| 5 | 207 | 12,811 | 61.9 | 12,914 | 16.69 | 24.28 | 118.59 |
| 6 | 293 | 35,758 | 122.0 | 39,492 | 16.18 | 48.81 | 100.33 |
| 7 | 394 | 14,913 | 37.9 | 14,483 | 20.05 | 23.57 | 94.39 |
| 8 | 171 | 32,430 | 189.6 | 33,479 | 12.07 | 33.21 | 70.64 |
| 9 | 186 | 26,427 | 141.5 | 29,214 | 15.13 | 27.40 | 106.24 |
| 10 | 394 | 25,320 | 64.3 | 26,277 | 11.86 | 10.51 | 114.81 |
| 11 | 663 | 27,444 | 41.4 | 30,738 | 9.69 | 14.22 | 63.73 |
| 12 | 235 | 24,294 | 103.4 | 25,948 | 14.98 | 14.57 | 181.82 |
| 13 | 611 | 21,561 | 35.3 | 21,501 | 17.24 | 31.11 | 117.91 |
| 14 | 405 | 23,584 | 58.2 | 24,527 | 14.44 | 24.14 | 115.92 |
| 15 | . 277 | 21,216 | 76.6 | 21,803 | 14.80 | 20.25 | 119.82 |
| 16 | 564 | 25,633 | 45.6 | 28,033 | 12.75 | 24.23 | 110.42 |
| 17 | 460 | 26,426 | 57.4 | 27,793 | 15.49 | 25.65 | 117.22 |
| 18 | 220 | 22,735 | 103.3 | 23,133 | 17.08 | 25.08 | 99.30 |
| 19 | 760 | 31,714 | 41.7 | 33,332 | 13.77 | 22.77 | 111.41 |
| 20 | 1,716 | 55,720 | 32.5 | 64,723 | 12.97 | 20.33 | ‡158.90 |
| 21 | 640 | 30,511 | 20.5 | 33,085 | 13.54 | 17.53 | 85.14 |
| 22 | 760 | 29,975 | 38.1 | 31,403 | 12.50 | 20.55 | 100.48 |
| 23 | 7,617 | 30,668 | 4.0 | 33,423 | 12.13 | 19.93 | 94.94 |
| 24 | 3,252 | 37,749 | 11.6 | 41,695 | 12.63 | 23.73 | 103.11 |
| 25 | 2,740 | 26,575 | 9.7 | 29,661 | 11.95 | 24.73 | 96.21 |
| 26 | 2,869 | 15,507 | 5.4 | 16,152 | 12.29 | 29.59 | 107.30 |

^{*} Hyde Park was annexed to Boston January 1, 1912, and became Ward 26. Under "Boston." in the above table, Hyde Park statistics are included.
† Population estimated by arithmetical method, using the censuses of 1905 and 1910.

[‡] An infant asylum is located in this ward.

VITAL STATISTICS.

April. General Summary.

| | | | | 1913. | 1912. |
|------------------------|--|--|--|---------|---------|
| Total deaths | | | | 1,002 | 1,039 |
| Population, estimated* | | | | 735,399 | 720,031 |
| Death rate per 1,000 | | | | 16.58 | 17.56 |
| Deaths of nonresidents | | | | 125 | 96 |
| Corrected death rate† | | | | 14.51 | 15.93 |

^{*} Population estimated by arithmetical method, using the censuses of 1905 and 1910.

† Nonresidents not included.

April, 1913. Statement of Deaths.

| | Ī. | | | | | | | | |
|---|--|---------------|-----|-----|------------------------------|---|-----|------|---|
| Total number | er (st | illbiı | ths | ex- | | NATIVIT | | | |
| cluded) | | | | | 1,002 | United States . | | | 622 |
| | | | | | | Ireland | | | 158 |
| | ST | e v | | | | England and Wales | | | 29 |
| | | | | | 210 | Scotland | | | 14 |
| Males . | | | | | | Germany | | | 12 |
| Females . | | | | | 492 | Canada | | | 77 |
| | | | | | | Italy | | | 19 |
| | COND | ITIO | N. | | | Russia and Poland | | | 32 |
| Single . | | | | | 494 | Sweden and Norway | | | 12 |
| Married . | | | | | | France | | | 2 |
| | | | | | | Other countries . | | | 20 |
| Widowed | | ٠ | ٠ | | 188 | Unknown | | | 5 |
| Divorced | | | | | 4 | 1 | | | |
| | | | | | | NATIVITY OF M | OTE | IPDG | |
| Unknown | | | | | 8 | NATIVITY OF M | | | |
| Unknown | | | | | 8 | United States . | | | 290 |
| | | | | | 8 | United States . Ireland | | | 279 |
| | Co: | LOR. | | | | United States . Ireland England and Wales | | • | 279 34 |
| White . | Co: | LOR. | | | 964 | United States . Ireland England and Wales Scotland | | | 279 |
| | Co: | LOR. | | | 964 | United States . Ireland England and Wales Scotland Germany | | | 279 34 |
| White . | Cor or m | Lor. ixed | | | 964 33 | United States . Ireland England and Wales Scotland | | | 279 34 20 16 92 |
| White . Black (negro | Co. | LOR. ixed | | | 964 33 | United States Ireland England and Wales Scotland Germany Canada Italy | | | 279 34 20 16 92 73 |
| White . Black (negro Chinese . Deaths of ch | Cor or m | LOR ixed . n: | | | 964 33 5 | United States . Ireland England and Wales Scotland Germany Canada | | | 279 34 20 16 92 |
| White . Black (negro Chinese . Deaths of ch Under one | Cor or m · ildre | LOR ixed . n: | | | 964 33 5 | United States Ireland England and Wales Scotland Germany Canada Italy | | | 279 34 20 16 92 73 |
| White . Black (negro Chinese . Deaths of ch Under one Under two | Con control co | LOR ixed . n: | | | 964 33 5 169 210 | United States . Ireland England and Wales Scotland Germany Canada Italy Russia and Poland | | | 279 34 20 16 92 73 61 |
| White . Black (negro Chinese . Deaths of ch Under one | Con control co | LOR ixed . n: | | | 964 33 5 169 210 | United States . Ireland England and Wales Scotland Germany Canada Italy Russia and Poland Sweden and Norway | | | 279 34 20 16 92 73 61 12 |

| List imber. | | Тот | ALS. | Year. | | | , . | | Years. | rs. | Years. | Years. |
|--------------------------------|---|---------|--------|------------|-----------|----------|----------|----------|------------|-----------------|------------|------------|
| Abridged List Class Number. | CAUSES OF DEATH. | 1913. | 1912. | Under 1 Y | 1 Year. | 2 Years. | 3 Years. | 4 Years. | Under 5 X | 5 to 9 Years. | 10 to 14 Y | 15 to 19 Y |
| | Total, all causes $\begin{cases} 1913 \\ 1912 \end{cases}$ | 1,002 | 1,039 | 169 159 | 41 54 | 23 16 | 18 5 | 6 4 | 257 238 | 29 19 | 16 9 | 17 22 |
| 1 | Typhoid fever | | 2 | | | | | | | | | |
| 3 | Malarial fever | | | | | | | | | ,. | | |
| 4 | Smallpox | | | | | | | | | | | |
| 5 | Measles | 14 | - 13 | 2 | 7 | 1 | 2 | 1 | 13 | 1 | | |
| 6 | Scarlet fever | 13 | 4 | 1 | 1 | 1 | 4 | 1 | 8 | 4 | 1 | |
| 7 | Whooping cough | 13 | - 10 | . 5 | 3 | 3° | | 1. | 12 | 1 | | |
| 8 | Diphtheria and croup | 13 | .9 | 2 | | 3 | 3 | | 8 | 4 | 1 | |
| 9 | Influenza | 1 | 5 | | | | | | | | | |
| 12 | Other epidemic diseases | 3 | 6 | | | | | | | | | |
| 13 | Tuberculosis of the lungs | 88 | 109 | 3 | 2 | 1 | 1 | | 7 | | 1 | 5 |
| 14 | Tuberculous meningitis | 12 | 10 | 4 | 2 | 3 | | | 9 | 2 | 1 | |
| 15 | Other forms of tuberculosis | 5 | 1 | | | 1 | | | 1 | | | 1 |
| 16 | Cancer, malignant tumor | 62 | 64 | | | | | | | 1 . | | 1 |
| 17 17a | Simple meningitis (except cerebrospinal meningitis). Cerebrospinal meningitis | 7 | 7 | 3 | | 1 | 1 | | 4 | | | |
| 18 | Apoplexy and softening of the brain, | 53 | 61 | 1 | | | | | 1 | | | |
| 19 | Organic heart diseases | 139 | 153 | | | | | | | 2 | 4 | 3 |
| 20 | Acute bronchitis | 5 | 6 | 3 | | | | | 3 | | | |
| 21 | Chronic bronchitis | 4 | 2 | | | | | | | | | |
| 22 | Pneumonia (except broncho-pneu- | 98 | 105 | 10 | 9 | 1 | 1 | -1 | 22 | 1 | 1 | 2 |
| 22a | monia). Broncho-pneumonia | 54 | 52 | 21 | 9 | 2 | , | 2 | 34 | 1 | 1 - | |
| 23 | Other respiratory diseases | 7 | 8 | 1 | 1 | | 2 | | 4 | | | |
| 24 | Diseases of the stomach (cancer ex- | 7 | - 11 | | | | | | | 1 | | |
| 25 | cepted). Diarrhea and enteritis (under two | 28 | 23 | 25 | 3 | | | | 28 | | | |
| 26 | years). Appendicitis and typhlitis | 4 | 9 | | | | | | | | | |
| 27 | Hernia, intestinal obstruction | 12 | 4 | 2 | | | | | . 2 | | | |
| 28 | Cirphosis of liver | 3 | 5 | | | | | | | | | |
| 29 | Bright's disease and nephritis | 70 | 74 | | | | | | | 1 | 2 | |
| 30 | Diseases of women (not cancer) | 7 | 6 | | | | | | | | | |
| 31 | Puerperal septicemia | 5 | 5 | | | | | | | | | |
| 32 | Other puerperal diseases | 6 | 4 | | | | | | | | | 1 |
| 33 34 | Congenital debility and malforma- | 61 1 | 51 | 61 | | | | | 61 | | | |
| 35 | Old age | | 46 | 2 | 1 | 5 | 3 | | 17 | | | |
| 36 | Violent deaths | | | | 1 | 5 | 3 | | 11 | 5 | | 1 |
| 37 | Suicide Other diseases | | 11 152 | 22 | 3 | 1 | 1 | | 917 | 5 | 3 | 1 |
| | Ill-defined causes | 152 | | | 9 | 1 | 1 | | 27 | | | 3 |
| 38 | in-defined causes | 2 | 3 | 1 | • • • • • | | | | 1 | | 1 | |

April, 1913.

| 20 to 24 Years. | Years. | Years. | Years. | 44 Years. | Years. | Years. | Years. | to 64 Years. | to 69 Years. | Years, | 79 Years. | Years. | 85 to 89 Years. | 90 Years and over. | | Sex. | Abridged List Class Number. |
|-----------------|----------|----------|----------|-----------|----------|----------|----------|--------------|--------------|----------|-----------|----------|-----------------|--------------------|------------|------------|--------------------------------|
| 24 3 | to 29 1 | 34 | 39 | 44 7 | to 49 | 54 | 20 | 64 | 69 | to 74 | 79 | 4 | 89 | ars | ** | les. | ged 18 N |
| 20 | \$ | 2 | to | ço | 20 | \$0 | 3. | to | to to | to | \$ \$ | to | to to | 0 Yea over. | Males. | Females. | ridg Clas |
| 20 | 25 | 30 | 35 | 40 | 45 | 20 | 55 | 09 | 65 | 70 | 75 | 80 | 86 | 06 | 2 | Ĕ | Ab |
| 38 32 | 43 37 | 33 52 | 46 69 | 37 51 | 65 60 | 52 74 | 63 69 | 72 69 | 77 76 | 59 57 | 40 56 | 31 26 | 20 13 | 7 10 | 510 523 | 492 516 | |
| | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | 4 |
| | | | | | | | | | | | | | | | 9 | 5 | 5 |
| | | | | | | | | | | | | | | | 6 | 7 | 6 |
| | | | | | | | | | | | | | | | 7 | 6 | 7 |
| | | | | | | | | | | | | | | | 11 | 2 | 8 |
| | | | | | | | | | | | 1 | , | | | | 1 | 9 |
| | | 1 | 1 | 1 | | | | | | | | | | , | 2 | 1 | 12 |
| 8 | 13 | 8 | 12 | 7 | 11 | 8 | 3 | 5 | | | | | | | 58 | 30 | 13 |
| | | | | | | | | | | | | | | | 4 | 8 | 14 |
| | 3 | | | | | | | | | | | | | | 3 | 2 | 15 |
| | 1 | 1 | 1 | 3 | 6 | 7 | 15 | 6 | 11 | 4 | 1 | | 4 | | 25 | 37 | 16 |
| 1 | , | 1 | | | 1 | | | | | | | | | | 3 | 4 | 17 |
| | | | | | | 1 | | | | | | | | | 1 | 1 | 17a |
| | | | | | 5 | 5 | 6 | 4 | 6 | 12 | 4 | 8 | 1 | 1 | 23 | 30 | 18 |
| 3 | 5 | 2 | 6 | 4 | 8 | 9 | 11 | 14 | 26 | 16 | 10 | 9 | 6 | 1 | 54 | 85 | 19 |
| | | | | | | | | | 1 | 1 | | | | | 5 | | 20 |
| | | | | | | | | | | 2 | 2 | | | | | 4 | 21 |
| 4 | 3 | 5 | 6 | 4 | 9 | 3 | 5 | 9 | 11 | 4 | 3 | 2 | 1 | 3 | 52 | 46 | 22 |
| | 1 | | 2 | | | 3 | 1 | 2 | 1 | 2 | 3 | 2 | 1 | | 29 | 25 | 22a |
| | 1 | | 1 | | | 1 | | _ | - | _ | | 2 | * | | 5 | 2. | 23 |
| 2 | 1 | | | 2 | ļ | 1 | | | | | | | | | 3 | 4 | 24 |
| | 1 | | | | | | | | | | | | | | 17 | 11 | 25 |
| | | | | | | | | | | | | | | | | 3 | |
| 1 | | | ,* | 1. | | 2 | | 2 | | | | | | | 1 | | 26 |
| | | | | | | | 1 | 1 | 1 | 1 | 3 | | 1 | | 7 | 5 | 27 |
| | | | | | 2 | 1 | | | | | | | | | 3 | | 28 |
| 5 | 2 | 4 | 2 | 5 | 7 | 1 | 9 | 13 | . 7 | 4 | 4 | 2 | 2 | ,. | 32 | 38 | 29 |
| | 2 | 2 | 1 | | 2 | | | | | | | | | | | 7 | 30 |
| 2 | 3 | | | | | | | | | | | | | | | 5 | 31 |
| 3 | 1 | 1 | | 1 | | | | | | | | | | | | | 32 |
| | | | | | | | | | | | | | | | 30 | 31 | 33 |
| | | | | | | | | | | | | | | | | 1 | 34 |
| 1 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | | 3 | 1 | 1 | 1 | 1 | | 27 | 15 | 35 |
| 3 | 1 | | 1 | 1 | 1 | | | 1 | | | | | | | 7 | 2 | 36 |
| 5 | 4 | 6 | 10 | 6 | 10 | 7 | 10 | 15 | 10 | 12 | 8 | 7 | 3 | 1 | 86 | 66 | 37 |
| | | | | | | | | | | | | | | | | 2 | 38 |

| Abridged List Class Number. | CAUSES OF DEATH. | WARD RESIDENCE. | | | | | | | | | | | |
|--------------------------------|---|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|------------------|----------------|------------------|----------------|
| Abrid Class | | Boston. | 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | 11. |
| | All causes | 1,002 | , 38 | 34 | 23 | 21 | 16 | 45 | 25 | 42 | 39 | 27 | 27 |
| | Rates per 1,000 popula- {1913 tion | 16.58 17.56 | 14.25 13.49 | 13.49 16.17 | 17.86 13.29 | 18.50 18.72 | 15.07 16.06 | 13.86 22.54 | $21.00 \\ 20.81$ | $15.26 \\ 12.11$ | 16.24 16.31 | $12.50 \\ 10.77$ | 10.69 13.10 |
| 1 | Typhoid fever | Ì | | | | | | | | | | | |
| 3 | Malarial fever | | | | | | | | | | | | |
| 4 | Smallpox | | | | | | | | | | | | |
| 5 | Measles | 14 | 1 | 2 | 1 | | | 2 | 2 | | | | |
| 6 | Scarlet fever | 13 | 1 | 1 | 1 | | | 2 | | | | | |
| 7 | Whooping cough | 13 | | | | | | 3 | | 1 | | | |
| 8 | Diphtheria and croup | ⁻ 13 | | 2 | | . 2 | | 1 | | | 1 | | |
| 9 | Influenza | 1 | | | | | | | | | | | |
| 12 | Other epidemic diseases | 3 | | | | | | | | | | | |
| 13 | Tuberculosis of the lungs | 88 | 5 | 3 | 1 | 3 | 2 | 4 | 3 | 6 | 4 | 3 | 2 |
| 14 | Tuberculous meningitis | 12 | | | | | | | | | 1 | | |
| 15 | Other forms of tuberculosis | 5 | | | | | | 1 | 1 | 1 | | | |
| 16 | Cancer; malignant tumor | 62 | 1 | 2 | 1 | 1 | 1 | 4 | 2 | 2 | 1 | 3 | 1 |
| 17 | Simple meningitis (except cerebro-spinal meningitis), | 7 | | | | | 1 | 1 | | 1 | | | |
| 17a | Cerebro-spinal meningitis | 2 | | | | | | , | | | 1 | | |
| 18 | Apoplexy and softening of the brain. | 53 | | | | 1 | 2 | | 2 | 1 | 3 | 1 | 2 |
| 19 | Organic heart diseases | 139 | 7 | 4 | 5 | 1 | 1 | 3 | 1 | 5. | 6 | 4 | 6 |
| 20 | Acute bronchitis | 5 | 1 | | | | | 1 | | | | 1 | |
| 21 | Chronic bronchitis | 4 | | , | , | | | | | | | · · · · · · | |
| 22 | Pneumonia (except broncho- pneumonia). | 98 | 4 | 3 | 3 | . 3 | 2 | 9 | 4 | 5 | 8 | 6 | 4 |
| 22 a | Broncho-pneumonia | 54 | 4 | 2 | | • 1 | 1 | 8 | . 3 | 6 | 2 | | |
| 23 | Other respiratory diseases | 7 | | | | | 1 | | | 1 | | | |
| 24 | Diseases of the stomach (cancer excepted). | 7 | | | | | | | | 1 | | | |
| 2 5 | Diarrhea and enteritis (under | 28 | 2 | 1 | 1 | 1 | | 1 | 1 | 1 | | 1 | |
| 26 | two years). Appendicitis and typhlitis | 4 | | | | | | | | | | | |
| 27 | Hernia, intestinal obstruction, | - 12 | | | | | | 1 | | 1 | | | |
| 28 | Cirrhosis of liver | 3 | 1 | | | | | | | | | | |
| 29 | Bright's disease and nephritis | 70 | 4 | 1 | 3 | 3 | 2 | 1 | 2 | 2 | | 1 | 5 |
| 30 | Diseases of women (not cancer), | 7 | | | | | | | | | | 1 | |
| 31 | Puerperal septicemia | 5 | | | | | | | | | | | |
| 32 | Other puerperal diseases | 6 | | | | | | | 1 | | 1 | | |
| 33 | Congenital debility and mal- | 61 | 3 | 1 | 2 | 2. | 2 | 3 | | 3 | | 1 | |
| 34 | Old age | 1 | | | | | | | | | | | |
| 35 | Violent deaths | 42 | 2 | 2 | | 1 | | | | 2 | 4 | | 1 |
| 36 | Suicide | 9 | | | | • • • • • | | | | | | | 2 |
| 37 | Other diseases | 152 | 2 | 9 | 5 | 2 | 1 | | 3 | 3 | 7 | 5 | 4 |
| 38 | Ill defined causes | 2 | ••••• | 1 | | | | | • • • • • | | | | |
| | Total deaths under one year | 169 | 11 | 8 | 4 | 6 | 2 | 13 | 3 | 11 | 2 | 3 | 2 |

| | | | | | | WARI | RESI | DENCE | · . | | | | | - | Boston, Ward Unknown. | Nonresidents. | Unknown. | Abridged List Class Number. |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------|----------------|----------------|--------------------------|---------------|----------|--------------------------------|
| 12. | 13. | 14. | 15. | 16. | 17. | 18. | 19. | 20. | 21. | 22. | 23. | 24. | 25. | 26. | Bosto | Non | Unkr | Abrid Class |
| 40 | 29 | 35 | 29 | 37 | 37 | 32 | 34 | 65 | 43 | 37 | 23 | 41 | 28 | 14 | 2 | 125 | 14 | |
| 18.76 17.22 | 16.41 18.09 | 17.36 15.06 | 16.18 18.01 | 16.06 16.94 | 16.20 16.45 | 16.83 18.51 | 12.41 16.31 | 12.22 16.51 | 15.81 14.70 | 14.34 12.97 | 8.37 12.33 | 11.96 14.43 | 11.49 16.96 | 10.55 18.31 | | | | |
| | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | 3 |
| | | | | , | | | | | | | | | | | | | | 4 |
| | | | 1 | 4 | | | | | 1 | | | | | | | | | 5 |
| 1 | | 2 | | | | 1 | 1 | | | 1 | | | | | | . 2 | | 6 |
| • • • • • | 4 | | 1 | | 2 | | | 1 | | | | | 1 | | | • • • • | | 7 |
| | | 1 | | | 1 | 1 | 1 | 1 | 1 | 2 | | | | | | | • • • | 8 |
| | | 1 | | | | • • • • • | | • • • • • | 1 | • • • • • | •••• | | | | | 2 | | 12 |
| 4 | 3 | 3 | 2 | 2 | 7 | 3 | 1 | 6 | 2 | | 1 | 2 | 1 | | | 13 | 2 | 13 |
| | | 2 | | 1 | 2 | | 1 | | | 2 | | | | | | 3 | | 14 |
| | | | | 1 | | | | | | | , | 1 | | | | | | 15 |
| 4 | | 2 | 2 | 1 | 1 | | 1 | 8 | 3 | 2 | 3 | 3 | 2 | 1 | | 10 | | 16 |
| | | | | | | 2 | | | 1 | | | | | | | 1. | | 17 |
| | | | | | | 1 | | | | | | . , | | | | | | 17a |
| 2 | 3 | 3 | 1 | 2 | 2 | 3 | 2 | 5 | 2 | 2 | 4 | 3 | | 1 | | 6 | | 18 |
| 4 | 3 | 9 | å | 6 | 3 | 1 | 3 | 7 | 9 | 9 | 3 | 11 | 4 | 3 | | 14 | 1 | 19 |
| 1 | | | | | | | | | | | | | 1 | | | | | 20 |
| | | | 1 | | | | | 2 | | 1 | | | | | | | | 21 |
| 5 | | 2 | 3 | 3 | 1 | 3 | 1 | 6 | 1 | 4 | 3 | 1 | 2 | 4 | | 8 | | 22 |
| 5 | 2 | 1 | | | 3 | 2 | · 1 | 4 | 3 | 1 | 1 | 2 | 1 | | | | 1 | 22 a |
| • • • • • | | | | | | 1 | | 2 | | | | | | | | 2 | • • • | 23 |
| | | | | | . 1 | | 1 | | 4 | | 2 | 1 | | | | 3 | 4 | 24 25 |
| • • • • • | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | | 4 | 1 | 1 | | | 5 | * | 26 |
| | 1 | | | 2 | | | | 2 | 1 | | 1 | 1 | | | | 2 | | 27 |
| | | | | | | 1 | | | | | | | | | | | 1 | 28 |
| 3 | 4 | | 1 | 2 | 2 | 1 | 2 | 6 | 3 | 7 | | 1 | 4 | 1 | 1 | 7 | 1 | 29 |
| 1 | | | | | | | 1 | | | | | | 1 | | | 3 | | 30 |
| | 2 | | | | | 1 | | | 1 | | | 1 | | | | | | 31 |
| | | | | | | 1 | | | | | 1 | | | | | 2 | | 32 |
| 4 | 1 | 2 | 2 | 2 | 4 | 3 | 4 | 3 | 2 | 2 | 2 | 5 | 1 | | | 7 | | 33 |
| | | | | | | | | | 1 | | | | | | | | | 34 |
| 1 | 2 | 3 | 2 | 2 | 2 | | 2 | . 3 | . 1 | 1 | | | 1 | | | 9 | 1 | 35 |
| 1 | | | | | 1 | | | | 1 | | . 1 | | | | | 3 | | 36 |
| 4 | 3 | 4 | 7 | 8 | 4 | 5 | 11 | . 8 | 9 | 3 | 1 | 8 | . 8 | 4 | 1 | 20 | 3 | 37 |
| | • • • • • | | | | | 1 | | | | | | | | | | | | 38 |
| 6 | 6 | 3 | 4 | . 5 | 8 | 7 | 5 | 5 | 4 | 3 | 6 | 10 | 4 | 1 | | 21 | 6 | |

following occurred among cases brought to Boston for treatment: Scarlet fever 2.

VITAL STATISTICS. April, 1913, Infant Mortality.

| _ | | | | | | | | | | | | | | | | | | |
|--------------------------------|--------------------------------|-------|---------------------|-------------|---------|---------|-----------------|--------|--------|------------|--------------|----------------|---------|-----------|---------|-------------|---------------------|--------------|
| Detailed List Class Number. | | To | RIL FALS, DER | | | | Days to 1 Week. | | , en | Month. | ıs. | 18. | 18. | ıs. | ths. | A G | ed eeks Over. | |
| List | CAUSES OF DEATH. | 1 Y | EAR. | Day | ıys. | ys. | 1 0 | Weeks. | Weeks. | to 1 | ontk | onth | Months. | ontk | Months. | Ġ. | Ġ. | ents |
| stailed Li Number. | | | | Under 1 Day | 2 Days. | 3 Days. | rs to | W | 3 W. | Weeks to I | to 2 Months. | 2 to 3 Months. | 9 M | 9 Months. | 12 N | Breast Fed. | Bottle Fed. | Nonresidents |
| etaj Nu | | 1913. | 1012 | nde | to 2 | t 2 | Day | to 2 | to 3 | | to 2 | to 3 | to | to 9 | to 1 | reas | ottl | onr |
| Q | | 1910. | 1714. | Þ | - | 7 | ~ | - | 7 | 3 | - | 7 | 63 | 9 | 0 | Ä | ğ | Z |
| | Total | 169 | 1 59 | 23 | 11 | 1 | 15 | 9 | 9 | 9 | 12 | 7 | 30 | 19 | 24 | . 35 | 75 | 21 |
| | Male | 97 | 88 | 11 | 7 | 1 | 7 | 5 | 4 | 5 | 7 | 6 | 15 | 13 | 16 | 25 | 41 | 11 |
| | Female | 72 | 71 | 12 | 4 | | 8 | 4 | 5 | 4 | 5 | 1 | 15 | 6 | 8 | 10 | 34 | 10 |
| | White | 161 | 155 | 22 | 11 | 1 | 13 | 8 | 8 | 9 | 12 | 7 | 30 | 16 | 24 | 33 | 73 | 20 |
| | Colored | 8 | 4 | 1 | | | 2 | ·1 | 1 | | | | | 3 | | 2 | 2 | 1 |
| 1 | Typhoid fever | | | | | | | | | | | | | | | | | |
| 5 | Smallpox | | | | | | | | | | | | | | | | | |
| 6 | Measles | . 2 | 5 | | | | | | | | | | | | 2 | 1 | 1 | |
| 7 | Scarlet fever | 1 | | | | | | | | | | | | 1 | | | 1 | |
| 8 | Whooping cough | 5 | 5 | | | | | | | | | | 1 | 2 | 2 | 1 | 4 | |
| 9 | Diphtheria and croup | 2 | 1 | | | | | | | | | | | 1 | 1 | 1 | 1 | |
| 10 | Influenza | | 1 | | | | | | | | | | | | | | | |
| 14 | Dysentery | | | | | | | | | | | | | | | | | |
| 18 | Erysipelas | | 2 | | | | | | | | | | | | | | | |
| 19 | Other epidemic diseases | | | | | | | | | | | | | | | | | |
| 20 | Pus-infection and septicemia, | 1 | 1 | | | | | | 1 | | | | | | | 1 | | |
| 24 | Tetanus | | | | | | | | | | | | | | | | | |
| 28 | Tuberculosis of the lungs | 3 | 1 | | | | | | | | | | 1 | | 2 | 1 | 2 | 2 |
| 29 | Acute miliary tuberculosis | | | | | | | | | | | | | | | | | |
| 30 | Tuberculous meningitis | 4 | 1 | | | | | | | | | | 1 | 1 | 2 | 1 | . 3 | 2 |
| 31 35 | Other forms of tuberculosis | | | | | | | | | | | | | | | | | |
| 36 | Rickets | 1 | | | | | | | | | | | | 1 | | 1 | | |
| 37 | Syphilis | | 2 | | | | | | | | | | | | | | | |
| 38 | Gonococcus infection | | | | | | | | | | | | | | | | | |
| 61 | Simple meningitis | 3 | 3 | | | | | | | | 1 | | 2 | | | | 3 | |
| 61a | Cerebro-spinal fever | | . 2 | | | | | | | | | | | | | | | |
| 63a | Acute poliomyelitis | | 1 | | | | | | | | | | | | | | | |
| 71 | Convulsions | 2 | 3 | | | | | | 2 | | | | | | | | 2 | |
| 76 | Diseases of the ears | | 1 | | | | | | | | | | | | | | | |
| 79 | Organic diseases of the heart, | | | | | | | | | | | | | | | | | |
| 89 | Acute bronchitis | 3 | 1 | | | | | | | 1 | | | 1 | | 1 | | 3 | |
| 91 | Broncho-pneumonia | 21 | 19 | | | | | 1 | | 3 | 2 | | 5 | 4 | 6 | 11 | 9 | |
| 92 | Pneumonia | 10 | 13 | | | | | | 1 | | | 2 | 2 | 4 | 1 | 8 | 2 | 1 |
| 93 | Pleurisy | | | | | | | | | | | | | | | | | |
| 103 | Other diseases of stomach | | 2 | : | | | • • • | | | | | | | | | | | |
| 104 | Diarrhea and enteritis | . 25 | 21 | | | | . 1 | | | | 3 | . 3 | 10 | 5 | 3 | 5 | 19 | 5 |
| 108 | Appendicitis and typhlitis | | 1 | | | | | | | | | | | | | | | |
| - | | | | | | | | | | | | | | | | | | |

VITAL STATISTICS.

April, 1913, Infant Mortality.— Concluded.

| Detailed List Class Number. | Causes of Death. | Tot | RIL ALS, DER EAR. | I Day. | Days. | Days. | to I Week. | Weeks. | Weeks. | s to I Month. | Months. | Months. | Months. | Months. | Months. | 2 W AND | GED EEKS OVER. | idents. |
|--------------------------------|---|-------|----------------------------|--------|---------|----------|------------|--------|--------|---------------|----------|----------|---------|---------|---------|------------|----------------------|--------------|
| Detailed Li Number. | | 1913. | 1912. | Under | 1 to 2] | 2 to 3 I | 3 Days | 1 to 2 | 2 to 3 | 3 Weeks to | 1 to 2] | 2 to 3] | 3 to 6 | 6 to 9 | 9 to 12 | Breast | Bottle | Nonresidents |
| 109 | Hernias, intestinal obstruction, | . 2 | | | | | : | .: | 1 | | | | 1 | | | | .2 | |
| 117 | Simple peritonitis | . , | 1 | | | | | | | | | | | | | | | |
| 119 | Acute nephritis | | 1 | | | | | | | | | | | | | | | |
| 143 | Furuncle | | | | | | | | | | | | | | | | | |
| 144 | Acute abscess | 1 | | | | | | | | | | | 1 | | | | 1 | |
| 145 | Other diseases of skin, etc | 1 | 3 | | | | | | | | | | 1 | | | | . 1 | |
| 150a | Hydrocephalus | 1 | 3 | | | | | | | | | | | | 1 | | 1 | |
| Ъ | Congenital malformations of | 6 | 3 | 1 | 2 | | | | 1 | | 2 | | | | | 1 | 2 | 1 |
| c | heart. Other malformations | . 4 | 4 | 1 | | | 1 | | 1 | 1 | | | | | | | 2 | |
| 151a | Premature birth | 39 | 29 | 18 | 6 | ٠ | 4 | 3 | 1 | 3 | 3 | 1 | | | | . 1 | 7 | 4 |
| ь | Congenital debility | 11 | 11. | | | | 5 | 2 | 1 | 1 | | | 2 | | | | 4 | 2 |
| 152a | Injuries at birth | 7 | 5 | 3 | 2 | 1 | 1 | | | | | | | | | | | 1 |
| ь | Other causes peculiar to early | 5 | · 4 | | 1 | | 3 | 1 | | | | | | | | | | |
| 167 | infancy. Burns (conflagrations ex- | | | : | | | | | | | | | | | | | | |
| 168 | cepted). Absorption of deleterious gases, | 1 | 2 | | | | | | | | 1 | | | | | 1 | | |
| 172 | Traumatism by fall | | | | | | | | | | | | | | | | | |
| 182 184 | Homicide | | | | | | | | | | | | | | | | | |
| 187 | Ill-defined diseases | 1 | 1 | | | | | | | | | | 1 | | | | 1 | |
| 200, | Other causes | 7 | 6 | | | | | 2 | | , | | 1 | 1 | | 3 | . 1 | 4 | 3 |
| | Breast fed * | 35 | 34 | . : . | | | | | 2 | | 2 | 4 | 9 | 9 | 9 | 35 | | 1 |
| | Bottle fed * | 75 | - 78 | | | | | | 7 | 9 | 10 | 3 | 21 | 10 | 15 | | 75 | 15 |
| | Nonresidents | 21 | 10 | | 1 | . 1 | 1 | 2 | 2 | | 2 | 1. | 6 | · 1 | 4 | 1 | 15 | 21 |
| | | | | | | | | | | 1 | 1 | | | | | | | |

^{*} Aged two weeks and over.

Additional Deaths for Other Months.

- Jan., 1913.—1 male; accidental drowning; white; aged 35 years; condition unknown; residence unknown; birthplace unknown; birthplace of mother unknown.
- Feb., 1913.—1 male; absorption of deleterious gases; white; aged 55 years; condition unknown; residence Ward 18; born in United States; birthplace of mother unknown.
- March, 1913.—1 male; alcoholism; white; aged 49 years; condition unknown; residence Ward 7; birthplace unknown; birthplace of mother unknown.
 1 male; organic diseases of the heart; white; aged 40 years; married; residence Ward 9; born in England or Wales; mother born in England or Wales.

 - 1 male; acute nephritis; white; aged 2 years; single; nonresident; born in United States; mother born in Ger-
 - 1 male; suicide by hanging or strangulation; white; aged 34 years; condition unknown; residence unknown; birthplace unknown; birthplace of mother unknown.
 - 1 female; alcoholism; white; aged 46 years; condition unknown; residence Ward 8; born in Canada; birth-
 - place of mother unknown,

 1 female; Bright's disease; white; aged 74 years; widow; residence Ward 22; born in United States; mother
 born in United States.

 1 female; suicide by drowning; white; aged 37 years; married; residence Ward 22; born in Canada; mother

 - 1 female; traumatism by fall; white; aged 61 years; widow; residence Ward 22; born in Scotland; mother born in Scotland.
 - Stillbirths, Jan. 3, Feb. 1, March 3.

DIVISION OF COMMUNICABLE DISEASES, April, 1913.

| | | Me | dica | 1 I | nspe | ctor | s. | | |
|-------------|----------------------------|--------|-------|-----|------|-------|----|--|-----|
| New ca | ses visited: | | | | | | | | |
| Diph | theria: | | | | | | | | |
| a. | Isolation | | | | | | | | 98 |
| b. | Diagnosis | | | | | | , | | 28 |
| Scarle | et fever: | | | | | | | | |
| a. | Isolation | | | | | | | | 92 |
| b. | Diagnosis | | | | | | | | 28 |
| c_{\cdot} | Release | | | | | | | | 10 |
| Meas | | | | | | | | | |
| a. | Isolation | | | | | | | | |
| b. | Diagnosis | | | | | • | | | 10 |
| Vario | ella: | | | | | | | | |
| a. | Isolation | | | | | | | | |
| b. | Diagnosis | | | | | | | | (|
| Opht | h <mark>a</mark> lmia neoi | nator | um . | | | | | | 23 |
| | rculosis | | | | | | | | 19 |
| Typh | oid fever | | | | | | | | 12 |
| Deat | hs investiga | ited . | | | | | | | 10 |
| Vacci | nations per | rform | ed . | | | | | | ? |
| Certif | ficates of v | accina | ation | iss | sued | • | | | 9 |
| | , | | | | | | | | |
| | | | · 1 | lur | ses. | | | | |
| | ses visited: | | | | | | | | |
| _ | theria. | | | | | | | | 16 |
| | et fever | | | | | | | | 149 |
| | | | | | , | | | | 828 |
| Varie | | | | | | | | | 9. |
| Typh | oid fever | | | | | | | | 23 |
| | ping cough | | | | | | | | 14 |
| | halmia neor | | | | | | | | 7 |
| | sed culture | es tak | cen f | for | diph | theri | a | | 142 |
| | es visited: | | | | | | | | |
| Diph | theria . | | | | | | | | 219 |

Scarlet fever

Measles .

Varicella

219

594

387

38

| Typhoid fever | | | | | | | 21 |
|---------------|------|-------|------|------|------|--|-----|
| Whooping cou | | | | | | | 42 |
| Ophthalmia ne | | | | | | | 155 |
| | Ι | Disin | fect | ions | ·. | | |
| Diphtheria . | | | | | | | 170 |
| Scarlet fever | | | | | | | 165 |
| Tuberculosis | | | | | | | 130 |
| | Fore | cible | Re | mov | als. | | |
| Tuberculosis | | | | | | | 1 |
| Scarlet fever | | | | | | | 3 |
| Diphtheria . | | | | | | | 2 |

| Wards. | Anterior Poliomyelitis. | Actinomycosis. | Asiatic Cholera. | Bubonic Plague. | Cerebro-spinal Meningitis. | Diphtheria. | Glanders, | Leprosy. | Malaria. | Malignant Pustule. | Measles. | Mumps. | Ophthalmia Neonatorum. |
|-------------------------------|----------------------------|----------------|------------------|-----------------|-------------------------------|-------------|-----------|----------|----------------|-----------------------|----------|--------|---------------------------|
| 1: | | | | | | 9 | | | | | 9 | 7 | 3 |
| 2 | 1 | | | | | 8 | | | | | 10 | 1 | 9 |
| 3 | | | | | | 6 | | | | | 13 | 3 | 2 |
| 4 | | | | | | . 6 | | | | | 22 | 5 | 2 |
| 5 | | | | | | 1 | | | | | 5 | 4 | 1 |
| 6 | | | | | | 15 | | - | | | 29 | 7 | 4. |
| 7 | | | | | | 1 | | | | | 20 | 2 | 4 |
| 8 | | , | | | | 11 | | | | | 39 | 6 | 22 |
| 9 | | | | | 1 | 3 | | | 1 | | 18 | | 5 |
| 10 | | | | | | 4 | | | | | 26 | 2 | 1 |
| 11 | | | | | | 2 | | | | | 65 | 8 | |
| 12 | | | | | | 6 | | | | | 31 | 5 | 8 |
| 13 | | | | | | 5 | | | | | 8 | 4 | 6 |
| 14 | | | | , | | 6 | | | | | 19 | 8 | 4 |
| 15 | | | | | | .2 | | | | | 16 | 5 | 2 |
| 16 | | | | | | - 5 | | | | | 74 | 4 | . 3 |
| 17 | | | | | 1 | 2 | | | | | 46 | 5 | 6 |
| 18 | | | | | 9 | 11 | | | ,. | | 13 | 5 | 2 |
| 19 | | | | | | 8 | | | | | 12 | 3 | . 2 |
| 20 | | | | | | 16 | | | | | 196 | 13 | 11 |
| 21 | | | | | 1 | 7 | | | | | 38 | 3 | . 2 |
| 22 | | | | | | -5 | | | 1 | | 34 | 1 | 2 |
| 23 | | | | | | 8 | | | , . . . | | 65 | 3 | 1 |
| 24 | | | | | | 14 | | | | | 47 | 1 | 2 |
| 25 | | | | | | 6 | | | | | 18 | 16 | |
| 26 | | | | | | 5 | | | | | 22 | 1 | |
| Total | 1 | | | | .3 | 172 | | | 2 | | 895 | 122 | 104 |
| Unknown | | | | | | | | | | | | | |
| Nonresidents | | | | | | 2 | : | | | | 2 | | |
| Grand total | 1 | | | | 3 | 174 | | | 2 | | 897 | 122 | 104 |
| Corresponding month last year | | 2 | | | 6 | 118 | | | 2 | | 711 | 29 | 78 |

Included in the nonresidents were the following cases, brought to Boston

COMMUNICABLE DISEASES.

Cases Reported.

April, 1913.

| Scarlet Fever. | Smallpox. | Tetanus. | Trachoma. | Trichinosis. | Tuberculosis (Pulmonary and Miliary). | Tuberculosis (Other Forms). | Typhoid Fever. | Typhus Fever. | Varicella. | Whooping Cough. | Yellow Fever. | Wards. |
|----------------|-----------|----------|-----------|--------------|---|-----------------------------|----------------|---------------|------------|-----------------|---------------|--------------------------------|
| 12 | 1 | | | | 10 | | | | 2 | 7 | | |
| 9 | | | | | 8 | | 1 | | 1 | 3 | | |
| 4 | | | | | 2 | | | | 6 | 2 | | |
| 4 | | | | | 6 | | 1 | | 6 | 5 | | 4 |
| 3 | | | | | 8 | - 1 | | | 6 | 1 | | 5 |
| 5 | | | - | | 25 | 1 | 1 | | 1 | 9 | | 6 |
| 2 | | | | | 20 | 2 | 1 | | 2 | 3 | | 7 |
| 7 | | | | | 26 | 1 | 2 | | 11 | 4 | | 8 |
| 2 | | 1 | | | 19 | 1 | | | 6 | 11 | | 9 |
| 3 | | | 1 | | 17 | | 1 | | 2 | 3 | | 10 |
| 5 | | | | | 3 | | | | 5 | 2 | | 11 |
| 5 | | | 1 | | 14 | | 1 | | 4 | 2 | | |
| 2 | | | | | 10 | 3 | | | 2 | 13 | | |
| 9 | | | | | 7 | 2 | 1 | | 5 | 6 | | |
| 4 | | | | | 10 | | | | 7 | 4 | | |
| 4 | | | | | 8 | 1 | 3 | | 4 | 9 | | 16 |
| 9 | | | | | 11 | 1 | , . | | | 14 | | 17 |
| 2 | | | | | 11 | 2 | | | 3 | 8 | | 18 |
| 9 | | | | | 11 | 1 | | | 3 | 1 | | 19 |
| 8 | | | | | 12 | 1 | 1 | | 11 | 11 | | 20 |
| 5 | | | | | 5 | 1 | 2 | | 1 | 8 | | 21 |
| 6 | | | | | 15 | 2 | 2 | | 4 | 7 | | 22 |
| 5 | | | | | 5 | | | | 3 | 3 | | 23 |
| 20 | | | | | 15 | 1 | | | 5 | 9 | | 24 |
| 7 | | | | | 8 | | | | 12 | 9 | | 25 |
| 4 | | | | | 3 | | 2 | | | 1. | | 26 |
| 135 | | 1 | 2 | | 289 | 21 | 19 | | 110 | 155 | | Total |
| 199 | | 1 | 2 | | 8 | | 19 | | 112 | 199 | | Unknown |
| | | | 7 | | | 5 | 1 | • • • • | | | | Nonresidents |
| 7 | | | 7 | | 20 | | 1 | | | | | Nonresidents |
| 162 | | 1 | 9 | | 317 | 26 | 20 | | 112 | 155 | | Grand total |
| 109 | | | 2 | | 391 | 30 | 19 | | 262 | 83 | | Corresponding month last year. |

for treatment: Measles, 2; scarlet fever, 7; diphtheria, 2; typhoid fever, 1.

| DIVISION OF CHILD HYGIENE.—APRIL, 1913. |
|---|
| 1. Medical Inspection of Schools. |
| Number inspections made |
| There were 979 pupils excluded from schools, ill with the following diseases: |
| Diphtheria |
| Chicken pox . . 16 Ringworm . |
| Diphtheria 3 |
| There were 9,675 cases of noncontagious disease found during the month, subdivided as follows: |
| Diseases of oral and respiratory tract |
| Diseases of ear |
| Diseases of oral and respiratory tract 2,460 Diseases of ear 105 Diseases of eye 413 Diseases of skin 592 Dental caries 1,921 Miscellaneous 4,184 |
| 2. Physical Examination of Licensed Minors. |
| There were 121 girls and 198 boys between the ages of 14 |
| and 16 years examined during the month. Seventy were found to be without defects and 249 with defects as follows: |
| Eyesight |
| Defective nasal breathing . 5 Orthopedic defects . 6 Hypertrophied tonsils . 21 Skin |
| Hypertrophied tonsils 21 Skin |
| |
| Seven certificates were refused at this time. |
| 3. Pre=Natal and Post=Natal Work. |
| Pre-Natal. |
| Number cases $\begin{array}{c cccc} 27 & \text{Number babies born} & . & . & . & . & . & . & . & . & . & $ |
| Mothers attended as follows: |
| Family physician $4 \mid \text{Midwife} \cdot \cdot \cdot \cdot \cdot \cdot \cdot 1$ Hospital $3 \mid \cdot $ |
| |
| Post-Natal. |
| Number cases 1,485 Number visits 3,251 |
| Number babies not found on account of wrong address, removal, etc., 97. |
| Breast-fed 1,223 Breast and bottle fed 93 Bottle-fed 169 |
| Defective conditions noted as follows: |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| (104) |

BACTERIOLOGICAL LABORATORY.

| DIPHTHERIA: | GONORRHEA: |
|--|--|
| INSPECTION OF MI | LK, VINEGAR, ETC. |
| Examination as to St | |
| " milk brought in by citizen: " milk for bacteriological ex: " vinegar | s. 668 s. 25 amination 677 126 66 |
| INSPECTION | OF DAIRIES. |
| Satisfactory * on first inspection. Satisfactory on later inspection. Unsatisfactory on first inspection. Unsatisfactory on later inspection. Total number of inspections. Dairies having milk rooms. Dairies without milk rooms. Number of cattle inspected. Number of cattle inspected. Number of dairies prohibited shipping milk to conditions of premises. * "Satisfactory" means having a score of a card. | 211 708 329 41 370 370 - |
| INSPECTED AT BRIC | THTON ARATTOID |
| Cattle inspected | Cattle condemned (2 whole). 635 lbs. Calves condemned (36 whole). 1,518 lbs. Sheep condemned lbs. Swine condemned (7 whole). 953 lbs. Swine condemned (parts of 415), 2,732 bs. |
| INSPECTION OF PROVISIONS | |
| Weal (immature) 99 lbs. Mutton (tainted) 12 lbs. Beef (tainted) 754 lbs. Pork (tainted) 194 lbs. Poultry (tainted) 141 lbs. | Miscellaneous. Eggs. 6 doz. Canned goods 34 cans. Vegetables 11 bush. |
| SANITARY INSPEC | CTION DIVISION. |
| New reports Reinspections. New tenement house reports. Nuisances reported. Legal notices. Court cases Fines Tenements vacated Houses demolished Milk applications approved Stable hearings Dump permits. | $\begin{array}{c} 3,990 \\ 10,915 \\ 496 \\ 6,497 \\ 514 \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ $ |
| Vessels inspected at quarantine | NTINE. 75 |
| Total immigrants arriving in Boston | 4,501 |

MONTHLY METEOROLOGICAL SUMMARY.

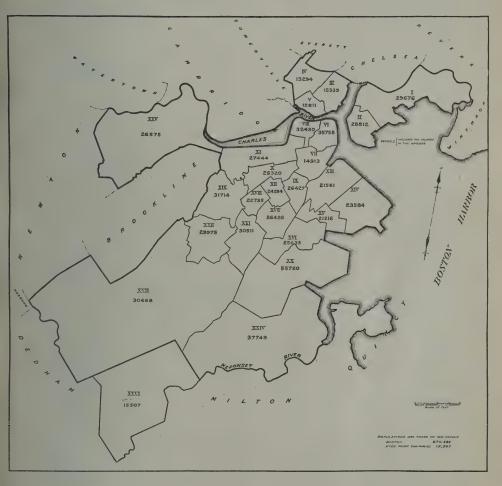
Taken at Weather Bureau, Boston, April, 1913.

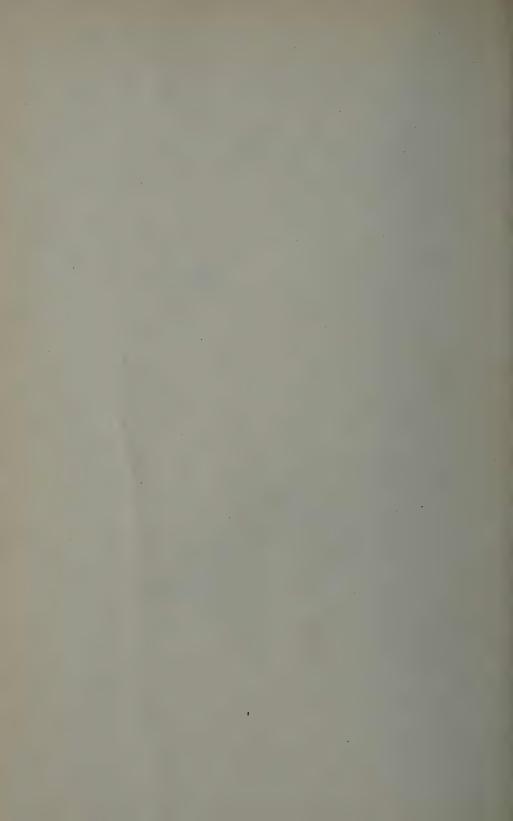
| | | MPERATU DEGREE: | 3 | midity. | itation. | Sun- | | WIND. | |
|--------|------------|--------------------|-------|--------------------|---------------------|-----------------------------|--|----------------------------------|--------------------------|
| Day, | Maximum. | Minimum. | Mean. | Relative Humidity. | Daily Precipitation | Actual Hours Sun- shine. | Average Hourly Velocity. (Miles.) | Maximum Velocity. (Miles.) | Prevailing Direction. |
| 1 | 47 | 38 | 42 | 54 | 0 | 7.6 | 20.3 | 33 | w. |
| 2 | 55 | 38 | 46 | 40 | 0 | 12.8 | 20.2 | 34 | w. |
| 3 | 46 | 41 | 44 | 60 | .01 | 2.5 | 8.7 | 14 | E. |
| 4 | 43 | 39 | 41 | 90 | .02 | 2.7 | 12.5 | 20 | N. E. |
| 5 | 53 | 39 | 46 | 89 | 1.41 | 4.9 | 8.0 | 16 | N. W. |
| 6 | 48 | 34 | 41 | 92 | :08 | 7.3 | 6.4 | 14 | w. |
| 7 | 40 | 34 | 37 | 90 | .09 | 2.1 | 9.0 | 20 | N. W. |
| 8 | 48 | 30 | 39 | 62 | . 0 | 13.0 | 13.0 11.1 | | N. W. |
| 9 | 41 | 29 | 35 | 60 | 0 | 13.1 | 13.0 | 25 | E., N. W. |
| 10 | 49 | 31 | 40 | 52 | 0 | 13.1 | 8.1 | 21 | N. W. |
| 11 | 52 | 38- | 45 | 86 | .75 | 0 | 9.6 | 18 | s. |
| 12 | 60 | 52 | 56 | 97 | .44 | . 0 | 8.4 | 21 | s. w. |
| 13 | 52 | 44 | 48 | 100 | 1.42 | 0 | 7.2 | 13 | N. |
| 14 | 55 | 46 | 50 | 87 | 02 | 6.9 | 7.8 | 15 | E. |
| 15 | 48 | . 41 | 44 | 96 | T | 4.1 | 13.0 | 22 | N. E. |
| 16 | 48 | 40 | 44 | 97 | .86 | 0 | 8.2 | 20 | N. |
| 17 | 50 | 41 | 46 | 88 | . 0 | 13.4 | 10.8 | 22 | S. E. |
| 18 | 62 | 40 | 51 | 86 | T | 13.5 | 14.7 | 28 | s. w. |
| 19 | 68 | 39 | 54 | -88 | .04 | 7.8 | 19.2 | 36 | s. w., w. |
| 20 | 40 | 34 | 37 | 64 | 0 | 12.3 | 17.2 | 28 | N. W. |
| 21 | 5 5 | 35 | 45 | 35 | 0 | 13.5 | 10.3 | 18 | N.W. |
| 22 | 70 | 45 | 58 | 38 | 0 . | 12.4 | 10.6 | 20 | W |
| 23 | 70 | . 52 | 61 | 81 | .11 | 10.3 | 6.3 | 14. | s. w. |
| 24 | 67 | 48 . | 58 | 80 | 0 | 12.4 | 5.2 | 12 | E. |
| 25 | 76 | 58 | 67 | 64 | 0 | 12.1 | 8.5 | 19 | s. w. |
| 26 | 74 | 54 | 64 | 66 | 0 . | 13.8 | 8.0 | 19 | s. w. |
| 27 | 57 | 45 | 51 | 100 | Т | 6.5 | 8.9 | 16 | E. |
| 28 | 52 | 47 | 50 | 190 | .42 | 0 | 10.0 | 19 | N. E. |
| 29 | 54 | 46 | 50 | 91 | .10 | 4.0 | 7.6 | 21 | N. E. |
| 30 | 59 | 40 | 50 | 39 | 0 | 14.0 | 14.0 | 25 | N |
| 31 | | | | | | | | | |
| Totals | _ | | _ | _ | 4.77 | 236.1 | | | |
| Means | 54.6 | 41.3 | 48.0 | 75.7 | 0.16 | 59% | 10.8 | 19th | w. |

Latitude 42 degrees 21 minutes.

Longitude 71 degrees 4 minutes.

BOSTON WARD MAP.





No. 5

MONTHLY BULLETIN

OF THE

HEALTH DEPARTMENT

OF THE

CITY OF BOSTON



| | | | | | | PAGE |
|--------------------------|---|-----|--|--|--|-------|
| Anti-typhoid Inoculation | | | | | | . 111 |
| Vital Statistics for May | • | . • | | | | . 112 |
| Monthly Reports | | | | | | . 122 |

CITY OF BOSTON PRINTING DEPARTMENT 1913

ORGANIZATION OF THE HEALTH DEPARTMENT

FRANCIS X. MAHONEY, M. D., Chairman. P. H. MULLOWNEY, M. D. V.

F. H. SLACK, M. D., Secretary.



MONTHLY BULLETIN

OF THE

HEALTH DEPARTMENT OF THE CITY OF BOSTON.

All communications relating to this publication should be addressed to BULLETIN OF THE HEALTH DEPARTMENT, 100 Summer St., Boston.

Vol. 2.

Boston, May, 1913.

No. 5.

ANTI-TYPHOID INOCULATION.

Anti-typhoid inoculation has proven to be a valuable aid in preventive health work. Its value has been proven by thousands of inoculations of soldiers in the English, German and American armies. These experiments have been carried on since 1897 to the present time, and have proven exceedingly successful. The inoculation of nurses and attendants in the various hospitals has almost stamped out typhoid amongst this class of greatly exposed persons. Typhoid inoculation is recommended by the highest medical authorities in this country and abroad. The various medical commissions who have investigated the subject report most favorably on anti-typhoid inoculation.

The anti-typhoid treatment consists of three injections of a definite number of killed typhoid organisms. The injections are given subcutaneously, preferably in the arm at the insertion of the Deltoid muscle. Each injection is given at an interval of ten days. There are never any serious results. Generally there is only a slight local reaction, some redness, swelling and pain, which rapidly passes away. It is only occasionally that a more severe local reaction occurs with some constitutional disturbance. In healthy persons typhoid inoculation is an entirely harmless proceeding.

The typhoid prophylactic used in Boston is prepared and furnished by the State Board of Health.

Treatment can be taken by both adults and children.

Successfully inoculated persons are perfectly protected against typhoid infection. The period of protection lasts from two to three years or more.

The treatment is especially recommended for those who are brought in contact with the sick from occupation or necessity, and to vacationists and travelers who leave the city. Much of the fall typhoid is brought into the city by those who have been in some infected locality during the summer.

SUMMARY OF VITAL STATISTICS FOR THE MONTH OF MAY, 1913.

Boston had 1,056 deaths in May, 1913, compared with 914 for May of last year; and a death rate of 16.91 against 14.95 for May, 1912. Deaths of nonresidents numbered 130 against 100 a year ago. Deducting deaths of nonresidents the corrected death rate for May, 1913, was 14.83 against 13.31 for May, 1912.

Of deaths from reportable diseases the principal increases were tuberculosis (all forms) 30; diphtheria, 9; scarlet fever, 6; measles, 4, and whooping cough, 4.

Other important increases were as follows:

| Organic heart disease | and: | neph | ritis | 4 / | | | ٠. | | | 27 |
|-------------------------|--------|-------|-------|-----|----|-----|----|---|---------|----|
| Pneumonia | - 65" | | | | 41 | ٠٠. | :* | | ¥., | 17 |
| Cancer | | | | | | | | | | 12 |
| Congential debility an | id ma | alfor | matic | ons | | | | | | 10 |
| Violent deaths | | | | | | | | 4 | | 10 |
| Broncho-pneumonia | | | | | | 4 | | | 200 | 8 |
| Hernia, intestinal obst | tructi | ion | | | | 2 | | | 1 | 8 |

Ward 26 had the lowest rate, 7.29, and Ward 18 the highest, 19.85.

There were 8 more deaths under one year than in May, 1912, 11 more under 5 years, and 28 more over 60 years.

The total deaths under one year numbered 187, which is 21 more than the average number for May for the preceding 5 years. Ninety-two of these deaths were due to premature birth, congenital debility, malformations and other diseases peculiar to early infancy; 27 to pneumonia and bronchopneumonia; 23 to diarrhea and enteritis; 13 to reportable diseases, and 32 to "other causes."

Of these deaths under one year, Ward 20 had the largest number, 19, and Ward 6 came next with 16.

One hundred and seventeen were over two weeks old and 82 of these were bottle fed.

GENERAL STATISTICS.

Population, Ward Area, Persons to Acre, and Rates.

| | | us. | la- | | STILLB | rths E | XCLUDED. |
|----------|---------------------|--------------------------|--|--|--|--|---|
| | Land Area in Acres. | Population, 1910 Census. | Persons to Acre of Land (Using Census Population.) | Population, Estimated, July 1, 1913.† | Death Rates, 1912. (Population, Estimated.)† | Birth Rates, 1911. (Population, Estimated.)† | Death Rates, 1912, of Children Under One Year, Per 1,000 Births, 1911. |
| * Boston | 27,674 | 686,092 | 24.8 | 735,399 | 16.17 | 25.99 | 119.35 |
| Wards 1 | 1,188 | 29,676 | 24.9 | 32,439 | 13.05 | 24.90 | 104.58 |
| 2 | 357 | 28,812 | 80.7 | 30,676 | 17.11 | 33.37 | 120.81 |
| 3 | 332 | 15,339 | 46.2 | 15,667 | 15.29 | 26.81 | 106.02 |
| 4 | 301 | 13,294 | 44.1 | 13,808 | 18.02 | 25.50 | 148.26 |
| 5 | 207 | 12,811 | 61.9 | 12,914 | 16.69 | 24.28 | 118.59 |
| 6 | 293 | 35,758 | 122.0 | 39,492 | 16.18 | 48.81 | 100.33 |
| 7 | 394 | 14,913 | .37.9 | 14,483 | 20.05 | 23.57 | 94.39 |
| 8 | . 171 | 32,430 | 189.6 | 33.479 | 12.07 | 33.21 | 70.64 |
| 9 | 186 | 26,427 | . 141.5 | 29,214 | 15.13 | 27.40 | 106.24 |
| 10 | 394 | 25,320 | 64.3 | 26,277 | 11.86 | 10.51 | 114.81 |
| 11 | 663 | 27,444 | 41.4 | 30,738 | 9.69 | 14.22 | 63.73 |
| 12 | 235 | 24,294 | 103.4 | 25,948 | 14.98 | 14.57 | 181.82 |
| 13 | 611 | 21,561 | 35.3 | 21,501 | 17.24 | 31.11 | 117.91 |
| 14 | 405 | 23,584 | 58.2 | 24,527 | 14.44 | 24.14 | 115.92 |
| 15 | 277 | 21,216 | 76.6 | 21,803 | 14.80 | 20.25 | 119.82 |
| 16 | 564 | 25,633 | 45.6 | 28,033 | 12.75 | 24.23 | 110.42 |
| 17 | 460 | 26,426 | 57.4 | 27,793 | 15.49 | 25.65 | 117.22 |
| 18 | 220 | 22,735 | 103.3 | 23,133 | 17.08 | 25.08 | 99.30 |
| 19 | 760 | 31,714 | 41.7 | 33,332 | 13.77 | 22.77 | 111.41 |
| 20 | 1,716 | 55,720 | 32.5 | 64,723 | 12.97 | 20.33 | ‡158.90 |
| 21 | 640 | 30,511 | 20.5 | 33,085 | 13.54 | 17.53 | 85.14 |
| 22 | 760 | 29,975 | 38.1 | 31,403 | 12.50 | 20.55 | 100.48 |
| 23 | 7,617 | 30,668 | 4.0 | 33,423 | 12.13 | 19.93 | 94.94 |
| 24 | 3,252 | 37,749 | 11.6 | 41,695 | 12.63 | 23.73 | 103.11 |
| 25 | 2,740 | 26,575 | 9.7 | 29,661 | 11.95 | 24.73 | 96.21 |
| 26 | 2,869 | 15,507 | 5.4 | 16,152 | 12.29 | 29.59 | 107.30 |

^{*} Hyde Park was annexed to Boston January 1, 1912, and became Ward 26. Under "Boston." in the above table, Hyde Park statistics are included.

[†] Population estimated by arithmetical method, using the censuses of 1905 and 1910. ‡ An infant asylum is located in this ward.

May. General Summary.

| | | | | 1913. | 1912. |
|------------------------|--|-----|--|---------|---------|
| Total deaths | | 1.0 | | 1,056 | 914 |
| Population, estimated* | | | | 735,399 | 720,031 |
| Death rate per 1,000 | | | | 16.91 | 14.95 |
| Deaths of nonresidents | | | | 130 | 100 |
| Corrected death rate† | | | | 14.83 | 13,31 |

^{*} Population estimated by arithmetical method, using the censuses of 1905 and 1910.

† Nonresidents not included.

May, 1913. Statement of Deaths.

| Nativity | | | | | | | | |
|------------------------|--------|-------|--------------------------|------|-----|-----|--|--|
| | | 1.056 | United States . | | | 663 | | |
| oradoa) • | | 1,000 | | | | | | |
| Suv | | | | | | 23 | | |
| | | wa. | Scotland | | | 12 | | |
| | | | Germany | | | 21 | | |
| Females | | 492 | Canada | | | 70 | | |
| | | | Italy | | | 36 | | |
| Conditio | N. | | | | | | | |
| Single | | 508 | Sweden and Norway | | | | | |
| | | | | | | 4 | | |
| | | | | | | 20 | | |
| | | | Unknown | • | | 9 | | |
| Divorced | | . 3 | NATIVITY OF M | OTHE | RS. | | | |
| Unknown | | 7. | United States | | | 297 | | |
| | | | | | | | | |
| | | | England and Wales | | | | | |
| White | | 1,026 | Scotland | | | 18 | | |
| Black (negro or mixed | l) | 29 | | | | | | |
| | | | | | | | | |
| Deaths of children: | | | Italy | | | | | |
| | | 107 | Russia and Poland | | | | | |
| Under one year . | | | Sweden and Norway | | | 14 | | |
| Under two years | | 228 | Sweden and Norway France | | | 4 | | |
| Under five years | | 261 | Other countries . | . ` | | 34 | | |
| Stillbirths during the | month, | 49 | Unknown | | | 58 | | |

| ist iber. | | Тот | ALS. | ar. | | | | Control of the Control | Years. | o n | Years. | Years. |
|--------------------------------|--|-------|-------|---------------|----------|----------|----------|------------------------|------------|---------------|-------------|-------------|
| Abridged List Class Number. | Causes of Death. | 1913. | 1912. | Under I Year. | I Year. | 2 Years. | 3 Years. | 4 Years. | Under 5 Ye | 5 to 9 Years. | 10 to 14 Ye | 15 to 19 Ye |
| | Total, all causes $\begin{Bmatrix} 1913 \\ 1912 \end{Bmatrix}$ | 1,056 | 914 | 187 179 | 41 41 | 14 18 | 11 6 | 8 6 | 261 250 | 24 14 | 19 10 | 20 26 |
| 1 | Typhoid fever | 1 | · 1 | | | | | | | | | |
| 3 | Malarial fever | | | | | | | | | | | |
| 4 | Smallpox | | | | | | | | | | | |
| 5 | Measles | * 12 | 8 | 5 | 3 | 3 | | 1 | 12 | | ., | |
| 6 | Scarlet fever | . 9 | .3 | | 1 | 1 | | | . 2 | 5 | 1 | |
| 7 | Whooping cough | . 9 | 5 | 4 | 2 | | 2 | . 1 | 9 | | | |
| 8 | Diphtheria and croup | 15 | . 6 | 1 | 3 | 1 | 1 | | 6 | 4 | 3 | , . |
| 9 · | Influenza | 1 | | | | | | | | | | |
| 12 | Other epidemic diseases | 6 | . 8 | . 1 | . 1 | | | | 2 | | | |
| 13 | Tuberculosis of the lungs | 111 | 79 | 1 | 3 | | 1 | | 5 | | 2 | 3 |
| 14 | Tuberculous meningitis | 10 | 10 | 2 | 2 | 2 | | | 6 | 1 | 1 | |
| 15 | Other forms of tuberculosis | 5 | 7 | | 2 | | | | 2 | | 1 | |
| 16 | Cancer, malignant tumor | 74 | 62 | | | | | | | | | |
| 17 | Simple meningitis (except cerebrospinal meningitis). | 5 | 5 | 3 | 1 | 1 | | | 5 | | | |
| 17a | Cerebro-spinal meningitis | 2 | 2 | | 2 | | | | 2 | | | |
| 18 | Apoplexy and softening of the brain, | 43 | 46 | | | | | | | | | 1 |
| 19 | Organic heart diseases | 145 | 121 | | | | | | | 2 | 2 | 5 |
| 20 | Acute bronchitis | 10 | 5 | 4 | 1 | 1 | | | 6 | | | |
| 21 | Chronic bronchitis | 3 | 4 | | | | | | | | | |
| 22 | Pneumonia (except broncho-pneumonia). | 92 | 75 | 10 | . 7 | | 2 | 1 | 20 | 1 | 2 | |
| 22 <i>a</i> | Broncho-pneumonia | 51 | 43 | 17 | 7 | 3 | 2 | 1 | - 30 | 2 | | |
| 23 | Other respiratory diseases | 10 | . 7 | | 2. | | | | . 2 | | | |
| 24 | Diseases of the stomach (cancer excepted). | 5 | 6 | | | | | | | 1 | | |
| 25 | Diarrhea and enteritis (under two years). | 24 | 24 | 23 | 1 | | | | 24 | | | |
| 26 | Appendicitis and typhlitis | 7 | 12 | | | | | | | | 1 | 2 |
| 27 | Hernia, intestinal obstruction | . 15 | 7 | 5 | | | | | - 5 | | | |
| 28 | Cirrhosis of liver | 7 | 7 | | 1 | | | | 1 | | | |
| 29 | Bright's disease and nephritis | 66 | 63 | 1 | | | | | 1. | | | 1 |
| 30 | Diseases of women (not cancer) | 4 | 8 | | | | | | | | | |
| 31 | Puerperal septicemia | 7 | 4 | | | | | | | | | |
| 32 | Other puerperal diseases | 7 | ' 6 | | | | | | | | | 1 |
| 33 | Congenital debility and malformations, | 76 | 66 | 75 | 1 | | | | 76 | | | |
| 34 | Old age | 3 | 2 | | | | | | | | | |
| 35 | Violent deaths | . 60 | 50 | 2 | 1 | 2 | 2 | 2 | 9 | 5 | 4 | 5 |
| 36 | Suicide | 9 | 12 | | | | | | | | | |
| 37 | Other diseases | 150 | 148 | 32 | | | 1 | 2 | 35 | 3 | 2 | 2 |
| 38 | Ill-defined causes | 2 | 2 | 1 | | | | | 1 | | | |

May, 1913.

| 20 to 24 Years. | Years. | 34 Years. | Years. | Years. | to 49 Years. | Years. | Years. | 64 Years. | to 69 Years. | Years. | 79 Years. | Years. | 85 to 89 Years. | put | | SEX. | Abridged List Class Number. |
|-----------------|----------|-----------|----------|----------|--------------|----------|----------|-----------|--------------|----------|-----------|----------|-----------------|--------------------|------------|------------|--------------------------------|
| 24 Y | 29 Y | 34 Y | 39 X | to 44 Y | 49 Y | 54 Y | 59 Y | 64 Y | Z 69 | 74 Y | 79 Y | 84 Y | 89 Y | 90 Years and over. | | 988 | s Nu |
| to | \$ | 2 | to | to | \$ | 2 | to | 60 to | to | 70 to 74 | 50 | 20 | to | 0 Yea | Males. | Females. | oridg Clas |
| 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 9. | 65 | 70 | 75 | 80 | 88 | 96° | M | H | N. |
| 37 24 | 44 32 | 41 30 | 61 56 | 59 41 | 73 50 | 65 60 | 67 64 | 79 65 | 58 57 | 51 48 | 42 43 | 29 27 | 13 9 | 13 8 | 564 466 | 492 448 | |
| | | 1 | | | | | | | | | | | | | | 1 | 1 |
| | | | | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | 4 |
| | | | | | | | | | | | | | | | 4 | 8 | 5 |
| 1 | | | | | | | | | | | | | | | 2 | 7 | 6 |
| | | | | | | | | | | | | | | | 2 | 7 | 7 |
| • • • • • | 1 | | | 1 | | | | | | | | | | | 10 | 5 | 8 |
| | | | | | | | | | | | 1 | | | | 1 | | 9 |
| | | | | 2 | 1 | | | 1 | | | | | | | 4 | 2 | 12 |
| 9 | 15 | 13 | 20 | 11 | 16 | 6 | 3 | 7 | | 1 | | | | | 77 | 34 | 13 |
| 1 | | | | 1 | | | | | | | | | | | 4 | 6 | 14 |
| • • • • • | | 1 | 1 | | | | | | | | | | | | 1 | 4 | 15 |
| • • • • • | 1 | 2 | 5 | 9 | 7 | 12 | 6 | 16 | 9 | .5 | 2 | | | | 35 | 39 | 16 |
| • • • • • | | | | | | | | | | | | | | | 4 | 1 | 17 |
| •••• | | | | | | | | | | | | | | | | 2 | 17a |
| • • • • • | | 1 | | 1 | 2 | 2 | 6 | 8 | - 5 | , 2 | 7 | 4 | 4 | | 25 | 18 | 18 |
| 3 | 1 | 5 | 4 | 12 | 6 | 11 | 10 | 16 | 15 | 18 | 19 | 14 | | 2 | 71 | 74 | 19 |
| 1 | | | | | 1 | | | | | 2 | | | | | 4 | 6 | 20 |
| • • • • • | | | | | | | | | 1 | | 1 | 1 | | | 2 | 1 | 21 |
| 3 | 2 | 4 | 7 | 4 | 12 | 6 | 9 | 7. | 6 | 6 | 1 | | 2 | | 52 | 40 | 22 |
| 1 | 2 | 2 | | | 1 | 1 | | 1 | 3 | 1 | 2 | 3 | | 2 | 24 | 27 | 22a |
| • • • • • | | | 1 | 3 | | | | | 1 | | | | 2 | 1 | 6 | 4 | 23 |
| | | | | | 1 | 1 | 1 | 1 | | | | | | | 4 | 1 | 24 |
| •••• | | | | | | | | | | | | | | | 15 | * 9 | 25 |
| 2 | | | 2 | | | | | | | | | | | | 5 | 2 | 26 |
| | 1 | | | 1 | | | 2 | 2 | 2 | | | 1 | | 1 | 7 | 8 | 27 |
| • • • • • | | | | | 2 | | 2 | | | 1 | | | | 1 | 4 | 3 | 28 |
| 3 | 2 | 1 | 3 | 1 | 5 | 9 | 13 | 7 | 7 | 7 | 3 | 3 | | | 32 | 34 | 29 |
| • • • • • | | | 1 | 1 | 1 | 1 | | | | | | | | | | 4 | 30 |
| 2 | 2 | 2 | 1 | | | | | | | | | | | | | 7 | 31 |
| 1 | 2 | 1 | 1 | 1 | | | | | | | | | | | | 7 | 32 |
| •••• | | | | | | | | | | | | | | | 41 | 35 | 33 |
| • • • • • | | | | | | | | | | | | | 2 | 1 | | 3 | 34 |
| 4 | 5 | 5 | 4 | 3 | 4 | 4 | 3 | 3 | | 1 | | | | 1 | 39 | 21 | 35 |
| 2 | 2 | | 1 | | 1 | 2 | | | 1 | | | | | | . 9 | | 36 |
| 4 | 8 | 3 | 9 | 8 | 13 | 10 | 12 | 10 | 8 | 7 | 6 | 3 | 3 | 4 | 78 | 72 | 37 |
| | | | 1 | | | | | | | | | | | | 2 | | 38 |
| | | | | | | | | | | | | | | | | | |

| All causes | Abridged List Class Number. | CAUSES OF DEATH. | | | | | | WARD | Resi | DENCE | | | | |
|--|-----------------------------|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|
| Rates per 1,000 popular [1913] 16.91 14.16 15.74 12.02 18.76 15.50 14.01 13.01 13.01 15.72 12.55 10 10.01 17.01 13.01 13.01 15.72 12.55 10 17.01 15.07 20.94 13.14 12.05 12.24 6 11 17.05 10.07 14.57 18.15 17.25 13.71 15.07 20.94 13.14 12.05 12.24 6 11 17.05 10.07 14.57 18.15 17.25 13.71 15.07 20.94 13.14 12.05 12.24 6 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Abridge Class N | CAUSES OF DEATH. | Boston | 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | 11. |
| Typhoid fever. | | All causes | 1,056 | 39 | 41 | 16 | 22 | 17 | 47 | 16 | 37 | 39 | 2 8 | 27 |
| Typhoid fever. | | | 16.91 14.95 | 14.16 10.07 | 15.74 14.87 | 12.02 18.15 | 18.76 17.25 | 15.50 13.71 | 14.01 15.97 | 13.01 20.94 | 13.01 13.14 | 15.72 12.05 | 12.55 12.24 | 10.34 6.74 |
| 3 Malarial fever. | 1 | ` | | | | | | | | | | | | |
| 5 Measles 12 1 1 1 4 | | | | | | | | | | | | | | |
| 6 Scarlet fever | 4 | Smallpox | | | | | | | | | | | | |
| Two Whooping cough | 5 | Measles | 12 | | 1 | 1 | 1 | 1. | 4 | | | | | |
| 8 Diphtheria and croup. 15 . 3 1 . 1 | 6 | Scarlet fever | 9 | | 1 | | | | | 1 | 2 | | | |
| 9 Influenza | 7 | Whooping cough | 9 | 1. | | | 1 | | | | | 1 | | |
| 12 Other epidemic diseases. | 8 | Diphtheria and croup | 15 | , | 3 | 1 - | | | 1 | | | | | |
| 13 Tuberculosis of the lungs | 9 | Influenza | 1 | | | | | | | | | | | |
| 14 Tuberculous meningitis 10 1 | 12 | Other epidemic diseases | 6 | | | | | | | | | | | |
| 15 Other forms of tuberculosis 5 | 13 | Tuberculosis of the lungs | 111 | 5 | 10 | 1 | 1 | . 2 | 5 | 3 | 3 | 7 | 2 | 3 |
| Cancer, malignant tumor. | 14 | Tuberculous meningitis | 10 | 1 | | | | 1 | | | | | 2 | |
| 17 Simple meningitis (except cerebro-spinal meningitis). | 15 | Other forms of tuberculosis | 5 | | | | | | | | | | | |
| Cerebro-spinal meningitis 2 | 16 | Cancer, malignant tumor | 74 | 4 | | | - 1 | | 2 | | 1 | 4 | 3 | 1 |
| 17a Cerebro-spinal meningitis 2 | 17 | Simple meningitis (except | 5 | \ | 1 | | 1 | | | | 1 | | | |
| Drain Drain Organic heart diseases 145 1 5 1 3 1 2 1 3 2 7 | 17a | cerebro-spinal meningitis). Cerebro-spinal meningitis | 2 | | 1 | | | | | | | | | |
| 19 Organic heart diseases | 18 | | 43 | 1 | 1 | | | | 1 | | 1 | | 3 | 1 |
| Chronic bronchitis | 19 | | 145 | 1 | 5 | 1 | 3 | 1 | 2 | 1 | 3 | 2 | 7 | . 3 |
| 22 Pneumonia (except bronchopneumonia). 92 2 2 2 4 4 4 1 5 4 | 20 | Acute bronchitis | 10 | | 1 | 1 | 1 | . 1 | 1 | | | | | |
| Discase of the stomach (cancer excepted). Discases of the stomach (cancer excepted). Discase of the stomach (cancer two years). Discase of the stomach (cancer) Discase of women (not cancer) Discase of | 21 | Chronic bronchitis | 3 | 1 | | | | | | | | | 1 | 1 |
| 22a Broncho-pneumonia | 22 | Pneumonia (except broncho- | 92 | 2 | 2 | 2 | 4 | 4 | 4 | 1 | 5 | 4 | | 4 |
| Diseases of the stomach (cancer excepted). Diseases (cancer excepted). Dise | 22a | pneumonia). Broncho-pneumonia | 51 | 2 | 4 | | 1 | 2 | 9 | 1 | 2 | 1 | | |
| 25 excepted). Diarrhea and enteritis (under two years). 24 1 1 1 3 1 3 1 1 3 1 | 23 | Other respiratory diseases | 10 | 2 | | | 1 | | | | 1 | | | 2 |
| Diarrhea and enteritis (under two years). 24 | 24 | Diseases of the stomach (cancer | 5 | 1 | | 1 | | | | | 1 | | | |
| 26 Appendicitis and typhlitis 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 25 | Diarrhea and enteritis (under | 24 | 1 | 1 | | | | | | . 1 | 3 | | |
| 28 Cirrhosis of liver | 26 | two years). Appendicitis and typhlitis | 7 | 1 | | | | | 1 | 1 | | | 1 | |
| 29 Bright's disease and nephritis 66 3 1 1 1 2 1 1 1 30 Diseases of women (not cancer), 4 <t< td=""><td>27</td><td>Hernia, intestinal obstruction,</td><td>15</td><td></td><td></td><td></td><td></td><td></td><td>2</td><td></td><td></td><td></td><td>1</td><td></td></t<> | 27 | Hernia, intestinal obstruction, | 15 | | | | | | 2 | | | | 1 | |
| 30 Diseases of women (not cancer), 4 31 Puerperal septicemia. 7 1 1 1 1 1 3 | 28 | Cirrhosis of liver | 7 | 1 | | 2 | | | | | | 1 | | |
| Diseases of women (not cancer), 4 | 29 | Bright's disease and nephritis | 66 | 3 | 1 | 1 | 1 | | 2 | 1 | 1 | 1 | | 2 |
| 32 Other puerperal diseases. 7 . | 30 | Diseases of women (not cancer), | . 4 | | | | | | | | | | | |
| 32 Other puerperal diseases. 7 . | 31 | Puerperal septicemia | 7 | | 1 | | | | | 1 | | K. | | r |
| 33 Congenital debility and malformations. 76 4 5 1 2 1 4 3 4 5 3 34 Violent deaths. 60 2 1 2 1 4 1 4 2 35 Violent deaths. 60 2 1 2 1 4 1 4 2 36 Suicide. 9 1 1 1 1 37 Other diseases. 150 5 1 4 2 3 5 2 5 9 3 38 Ill defined causes. 2 1 < | | | 7 | | | | | | | | | | | |
| 34 Old age 3 35 Violent deaths 60 2 1 2 1 4 1 4 2 36 Suicide 9 1 1 1 1 1 37 Other diseases 150 5 1 4 2 3 5 2 5 9 3 38 Ill defined causes 2 1 1 1 1 1 | 33 | | | 4 | 5 | 1 | 2 | 1 | 4 | 3 | 4 | 5 | 3 | 1 |
| 35 Violent deaths 60 2 1 2 1 4 1 4 2 36 Suicide 9 1 1 1 1 1 37 Other diseases 150 5 1 4 2 3 5 2 5 9 3 38 Ill defined causes 2 1 </td <td>34</td> <td></td> <td>.3</td> <td></td> <td>1</td> | 34 | | .3 | | | | | | | | | | | 1 |
| 37 Other diseases | 35 | Violent deaths | | 2 | 1 | | 2 | 1 | 4 | 1 | 4 | | 2 | |
| 38 Ill defined causes 2 | 36 | Suicide | 9 | 1 | 1 | | | | | | 1 | | | 1 |
| | 37 | Other diseases | 150 | 5 | 1 | 4 | 2 | 3 | 5 | 2 | 5 | 9 | 3 | 6 |
| | 38 | Ill defined causes | 2 | | | | | | | | 1 | | | |
| Total deaths under one year 187 6 12 3 6 3 16 3 7 10 3 | | Total deaths under one year | 187 | 6 | 12 | 3 | 6 | 3 | 16 | 3 | 7 | | | 1 |

| = | | | | | | | | | | | | | | | 70 | | | |
|----------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|--------------|--------------------------|---------------|----------|--------------------------------|
| | | | | | | WARD | RESI | DENCE | | | | | | | Boston, Ward Unknown. | Nonresidents. | Unknown. | Abridged List Class Number. |
| 12. | 13. | 14. | 15. | 16. | 17. | 18. | 19. | 20. | 21. | 22. | 23. | 24. | 25. | 26. | Bostc | Nonr | Unkn | Abrid Class |
| 43 | 36 | 32 | 32 | 30 | 41 | 39 | 43 | 91 | 31 | 41 | 35 | 48 | 34 | 10 | 1 | 130 | 10 | |
| 19.51 21.30 | 19.71 | 15.33 12.15 | 17.28 11.44 | 12.60 12.08 | 17.37 14.20 | 19.85 20.98 | 15.19 13.27 | 16.55 11.79 | 11.03 12.77 | 15.37 12.55 | 12.33 13.74 | 13.55 9.89 | 13.50 7.80 | 7.29 9.60 | | | | |
| | | | | | | 1 | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | | 4 |
| | | | | | 1 | | | 2 | | | .1 | | | | | | ٠ | 5 |
| | 1 | 1 | 1 | | | 1 | | | | | | | 1 | | | | | 6 |
| 1 | 2 | | | | 1 | | | | | | | 1 | | | | 1 | | 7 |
| 1 | | 1 | | | 1 | 1 | • • • • • | 4 | | | 1 | | 1 | | | | | 8 |
| 1 | | 2 | | | | | | | 1 | | | 1 | 1 | | | | | 9 |
| 3 | 5 | 2 | 5 | 3 | 6 | 3 | 4 | 8 | 2 | 5 | 5 | 4 | 1 | | | 11 | 2 | 13 |
| | | 1 | | | | | | 1 | | | | 1 | 2 | | | 1 | | 14 |
| | | 1 | | | | | | | 1 | | | | 1 | | | 2 | | 15 |
| 5 | 3 | 3 | 4 | 4 | 1 | 1 | 3 | 7 | 4 | 2 | 4 | 4 | 2 | | | 11 | | 16 |
| | 1 | | | | | | | | | | | 1 | | | | | | 17 |
| | | | | | | | 1 | | | | | | | | | | | 17a |
| 1 | 2 | 1 | 1 | 4 | 1 | | 2 | 6 | 2 | 3 | 4 | 6 | | | | . 2 | | 18 |
| 9 | 4 | 4 | 6 | 8 | 9 | 7 | 10 | .16 | 4 | 3 | 6 | 6 | 5 | 2 | | 17 | | 19 |
| 1 | 1 | | 1 | | | | 1 | 1 | | | | | | | | | | 20 |
| | | | | | | | | | | | | | | | | | • • • • | 21 |
| 6 | 1 | 2 | 4 | 3 | 3 | 2 | 4 | 11 | 3 | 2 | 3 | 2 | 6 | 1 | | 7 | | 22 |
| | 3 | 1 | | | 3 | 2 | | 4 | 1 | 5 | 3 | | 2 | 1 | | 1 | 1 | 22 <i>a</i> |
| • • • • • | 1 | 1 | | | | | | | 1 | 1 | | | | | | 1 | | 24 |
| | 1 | | | | | 2 | | 5 | | 2 | | 1 | | | | 2 | 6 | 25 |
| | | | | 1 | | | | | | | | 1 | | 1 | | | | 26 |
| 1 | | | 1 | | 2 | 1 | 1 | | 1. | | | 3 | | | | 2 | | 27 |
| | | | | | | 1 | | | 1 | | 1 | | | | | | | 28 |
| 5 | 5 | 3 | 2 | 1 | 3 | 7 | 7 | 5 | 2 | 4 | | 3 | 1 | 2 | | 3 | | 29 |
| | | | 1 | | | | | | | 1 | | | | | | 2 | | 30 |
| | | | | | 1 | 1 | | | | | | | | | | 1 | | 31 |
| | | | | | | | 1 | 1 | | | | | | | | | | |
| 4 | | . 1 | | 2 | 1 | 2 | 3 | 3 | ì | | 1 | 7 | 3 | 1 | | | | |
| | 1 | | | | | | | | | 1 | | | 1 | | | | | |
| 2 | 2 | 4 | 2 | | | 2 | 1 | 2 | | 2 | 2 | 1 | 1 | 1 | | 22 | | |
| 3 | 3 | 5 | 4 | 4 | 8 | 5 | 5 | 15 | 4 | 8 | 4 | 5 | 6 | 1 | 1 | 23 | 1 | 37 |
| | | | 1* | 1 | | | | | | | | | | | | i | | |
| 6 | | | 2 | 2 | - | 6 | 5 | 19 | 1 | 6 | 3 | 14 | 5 | 1 | | | - | |
| | | | | 1 | 1 | | | | 1 | 1 | | | | | | | 3 | |

VITAL STATISTICS. May, 1913, Infant Mortality.

| , | | | | | | | | | | | | | | | | | | = |
|--------------------------|--------------------------------|-------|-------------------|--------------|------------|--------------|--------|----------|---------------|-------------------|--------------|---------|---------|---------|---------|------------|---------------------|--------------|
| t Class | 5 | Tor | AY ALS, DER | y. | | | Week. | ໝໍ | 202 | Weeks to I Month. | hs. | hs. | hs. | hs. | ths. | A G AND | ED EEKS OVER. | . 8 |
| Lis er. | CAUSES OF DEATH. | | EAR. | Day | ays. | ays. | to 1 | Weeks. | eek | to | ont | Months. | Months. | Months. | Months. | Fed. | Fed. | lent |
| Detailed List Number. | | | | Under I Day. | to 2 Days. | 2 to 3 Days. | Days t | 2 W | 2 to 3 Weeks. | eks | to 2 Months. | 63 | 9 | 6 | 12 | st F | le F | Nonresidents |
| Sets N | | 1913. | 1912. | Jnd | to to | to | 3 Dg | to 2 | to | 3 W. | 1 to | 2 to | 3 to | 6 to | 9 to | Breast | Bottle | Non |
| | | | | | | | ,,, | | | , | | ** | | | - | | | |
| | Total | 187 | 179 | 32 | 9 | | 19 | 5 | | 9 | 14 | 13 | 23 | 23 | 26 | 35 | 82 | 25 |
| | Male | 109 | 101 | 21 | 5 | 2 | 12 | 4 | 6 | 5 | 7 | 9 | 15 | 13 | 10 | 20 | 45 | 15 |
| | Female | 78 | 78 | 11 | 4 | 3 | 7: | 1 | . 3 | 4 | 7 | 4 | 8 | 10 | 16 | 15 | 37 | 10 |
| | White | 181 | . 174 | 32 | 9 | 4 | 19 | 5 | 8 | 8 | 12 | 13 | 23 | 22 | 26 | 34 | 78 | 24 |
| | Colored | 6 | 5 | | | 1 | | | 1 | 1 | 2 | | | 1 | | 1 | 4 | 1 |
| 1 | Typhoid fever | | | | | | | | | | | | ••• | | ' | | | |
| 5 | Smallpox | | | | . , . | | | | | | | | | | | | | |
| 6 | Measles | 5 | 3 | | | | | | | | | | | 2 | 3 | 3 | 2 | |
| 7 | Scarlet fever | | | | | | | | | | | | | | | | | |
| 8 | Whooping cough | 4 | 3 | | | | ,. | | | | | | | 1 | 3 | 1 | 3 | |
| 9 | Diphtheria and croup | 1 | . 1 | | | | | | | | | | | | 1 | | 1 | |
| 10 | Influenza | | | | | | | | | | | ٠ | | | | | | |
| 14 | Dysentery | | | | | | | | | | | | | | | | | |
| 18 | Erysipelas | 1 | 4 | | | | | | | | | | 1 | | | | 1 | |
| 19 | Other epidemic diseases | | | | | | | | | | | | | | | | | |
| 20 | Pus-infection and septicemia, | 1 | 1 | | | | | | | 1 | | | | | | | 1 | |
| 24 | Tetanus | | | | | | | | | | | | | | | | | |
| 28 | Tuberculosis of the lungs | | 3 | | | | | | | | | | | | | | | |
| 29 | Acute miliary tuberculosis | 1 | | | | | | | | | | | 1 | | | | - 1 | 1 |
| 30 | Tuberculous meningitis | 2 | 3 | | | | | | | | | | | 1 | 1 | 1 | 1 | 1 |
| 31 35} | Other forms of tuberculosis | | 2 | | | | | | | | | | | | | | | |
| 36 | Rickets | | | | | | | | | | | | | | | | | |
| 37 | Syphilis | 4 | 4 | | | | | | 1 | 1 | | | 2 | | | 1 | 3 | 1 |
| 38 | Gonococcus infection | | | | | | | | | | | | | | | | | |
| 61 | Simple meningitis | 3 | 1 | | | | | ٠ | | | 1 | | | 2 | | 2 | 1 | |
| 61a | Cerebro-spinal fever | | 1 | | | | | | | | | | | | | | | |
| 63a | Acute poliomyelitis | | | | | | | | | | | | | | | | | |
| 71 | Convulsions | 3 | | | | | 2 | | | 1 | | | | | | 1 | | |
| 76 | Diseases of the ears | 2 | | | | | | | 1 | | | | | 1 | | | 2 | |
| 79 | Organic diseases of the heart, | | | | | | | | | | | | | | | | | |
| 89 | Acute bronchitis | 4 | 4 | | | | | | 2 | | | | 1 | 1 | | 2 | 2 | |
| 91 | Broncho-pneumonia | 17 | 20 | | | | | | 1 | 1 | 3 | 1 | 2 | 2 | 7 | 6 | 11 | 1 |
| 92 | Pneumonia | 10 | 13 | | | | | | 1 | | 1 | | 2 | 3 | 3 | 4 | .6 | 1 |
| 93 | Pleurisy | | | | | | | | | | | | | | | | | |
| 103 | Other diseases of stomach | | 3 | | | | | | | | | | | | | | | |
| 104 | Diarrhea and enteritis | 1 | į. | | | | | | | | 3 | | 6 | 6 | 1 | 3 | 20 | 2 |
| 108 | Appendicitis and typhlitis | | | | | | | <u>.</u> | | | | | | | | | | |
| | | | | | | | | - | | | | | | | | | | |

May, 1913, Infant Mortality. - Concluded.

| Detailed List Class Number. | CAUSES OF DEATH. | Tot Un 1 Y | AY ALS, DER EAR. | Under I. Day. | I to 2 Days. | 2 to 3 Days. | 3 Days to I Week. | I to 2 Weeks. | 2 to 3 Weeks. | 3 Weeks to I Month. | I to 2 Months. | 2 to 3 Months. | 3 to 6 Months. | 6 to 9 Months. | 9 to 12 Months. | 2 W | Bottle Fed. | Nonresidents. |
|--------------------------------|---|------------------|---------------------------|---------------|--------------|--------------|-------------------|---------------|---------------|---------------------|----------------|----------------|----------------|----------------|-----------------|-----|-------------|---------------|
| 109 | Hernias, intestinal obstruction, | 5 | 1 | | | | | ٠, | | | | .1 | 1 | 1 | 2 | 2 | 3 | 1 |
| 117 | Simple peritonitis | | | | | | | . : . | | | | | | | | | | |
| 119 | Acute nephritis | 1 | | | | | | | | | | | 1 | | | 1 | | |
| 143 | Furuncle | | | | | | | | | | | | | | | | | |
| 144 | Acute abscess | | 1 | | | | | | | | | | | | | | | |
| 145 | Other diseases of skin, etc | | 1 | | | | | | | | | | | | | | | |
| 150a | Hydrocephalus | | 1 | | | | | | | | | | | | | | | |
| ь | Congenital malformations of heart. | . 7 | 4 | 2 | | | 1 | | 1 | | 2 | | | | 1 | | 4 | 2 |
| c | Other malformations | 4 | 4 | , | | | | | | | 3 | 1 | | | | 1 | 3 | 2 |
| 151a | Premature birth | 48 | 42 | 23 | 7 | 3 | 8 | 2 | | 4 | | | 1 | | | 2 | 3 | 6 |
| b | Congenital debility | 16 | 15, | 1 | | 1 | 2 | 1 | 2 | 1 | 1 | 3 | 2 | 1 | 1 | 3 | .8 | 3 |
| 152a | Injuries at birth | 10 | 6 | 4 | 1 | | 5 | | | | | | | | | | | 2 |
| ь | Other causes peculiar to early infancy. | 7 | 12 | 2 | 1 | · 1 | | 2 | | | | | | 1 | | | 1 | 1 |
| 167 | Burns (conflagrations ex- | | | | | | | | | | | | | | | | | |
| 168 | Absorption of deleterious gases, | 2 | 1 | | | | | | | | | | | 1 | 1 | 1 | 1 | |
| 172 | Traumatism by fall | | | | | | | | | | | | | | | | , | |
| 182) 184) | Homicide | | | | | | | | | | | | | | | | | |
| 187 189 | Ill-defined diseases | 1 | 1 | | | | | | | | | | | | 1 | | 1 | |
| | Other causes | 5 | 3 | | | | 1 | | | | , . | | 3 | | 1 | 1 | 3 | 1 |
| | Breast fed * | 35 | 41 | | | | | | 2 | 3 | 3 | 2 | 7 | 8 | 10 | 35 | | 2 |
| | Bottle fed * | 82 | 73 | | | | | | 7 | 6 | 11 | 11 | 16 | 15 | 16 | | 82 | 13 |
| | Nonresidents | 25 | 14 | 6 | . 1 | | 2 | 1 | 3 | 2 | 2 | 1 | 2 | 4 | 1 | 2 | 13 | 25 |

^{*} Aged two weeks and over.

Additional Deaths for Other Months.

- Jan., 1913.—1 male; accidental drowning; white; aged 40 years; condition unknown; residence unknown; birthplace of mother unknown.
 1 male; accidental drowning; white; aged 55 years; condition unknown; residence unknown; birthplace of mother unknown.
 1 male; accidental drowning; white; aged 17 years; single; residence Ward 9; born in United States; mother born in Canada.

 - born in Canada.
- Feb., 1913.—1 male; accidental drowning; white; aged 25 years; condition unknown; residence unknown; birthplace unknown; birthplace of mother unknown.

 1 male; accidental drowning; white; aged 50 years; condition unknown; residence unknown; birthplace
- unknown; birthplace of mother unknown.

 March, 1913.—1 male; alcoholism; white; aged 39 years; single; residence Ward 10; born in England or Wales; mother born in England or Wales.
- April, 1913.—1 male; appendicitis and typhlitis; white; aged 48 years; married; residence Ward 7; born in Ireland; mother born in Ireland.
 - 1 male; cancer and other malignant tumors of bucal cavity; white; aged 47 years; married; residence Ward 11; born in United States; mother born in Italy.

 1 male; traumatism by fall; black; aged 53 years; single; residence Ward 18; born in United States; birth-
 - place of mother unknown.
 - 1 male; traumatism by other crushing; white; aged 25 years; condition unknown; residence unknown; birthplace unknown; birthplace of mother unknown.
 1 male; traumatism by other crushing; white; aged 30 years; condition unknown; residence unknown; birthplace unknown; birthplace of mother unknown.
 1 male; other external violence; white; aged 7 years; single; nonresident; born in United States; mother born; I tele;
 - born in Italy.

DIVISION OF COMMUNICABLE DISEASES, May, 1913.

| M | edic | ai | Insp | ecto | rs. | | | |
|--------------------------------|------|----|--------|------|-----|---|----|------|
| New cases visited: | | | | | | | | |
| Diphtheria: | | | | | | | | |
| a. Isolation . | | | | | | | | 97 |
| b. Diagnosis | | | | | | | | 4 |
| Scarlet fever: | | | | | | | | |
| a. Isolation . | | | | · | | | | 79 |
| b. Diagnosis | | | | | | | | 12 |
| c. Release . | | | | | | | | 67 |
| Typhoid fever . | | | | | | | | 7 |
| Measles: | | | | | | | | |
| a. Isolation . | | | | | | | | 5 |
| b. Diagnosis | | | | | | | | 10 |
| Varicella: | | | | | | | | |
| a. Isolation . | | | | | | | | 0 |
| b. Diagnosis | | | | | | | | 4 |
| Ophthalmia neonato | rum | | | | | | | 10 |
| Tuberculosis . | | | | | | • | | - 32 |
| Deaths investigated | | | | | | | | 17 |
| | | | | | | | | |
| | | N | urses. | | | | | |
| New cases visited: | | | | | | | | |
| Diphtheria | | | | | | | | 176 |
| Scarlet fever . | | | | | | | | 136 |
| Typhoid fever . | | | | | | | | 9 |
| Whooping cough | | | | | | | | 119 |
| Ophthalmia neonato | rum | | | | | | | 107 |
| Mumps | | | | | | | | 1 |
| | | | | | | | | 733 |
| Varicella | | | | | | | | 73 |
| Malaria | | | | | | | ٠. | 1 |
| Malaria Cerebro-spinal meni | ngit | is | | | | | | 1 |
| Trachoma | | | | | ٠. | | | 2 |
| Old cases visited: | | | | | | | | |
| Diphtheria | | | | | | | | 187 |
| | | , | | | | | | 313 |
| Typhcid fever . | | | | | | | | 25 |

(122)

| Whooping co | ugh | | | | | | | 54 |
|------------------------------|--------|------|-------|-------|-------|------|--|------|
| Ophthalmia 1 | | | | | | | | |
| Measles . | | | | | | | | 576 |
| Varicella . | | | | | | | | 43 |
| Release cultu | res ta | aken | for | diph | theri | a | | 182 |
| Vaccinations | perfor | rmed | l . | | | | | 1381 |
| Certificates gr | | | | | | | | |
| | | For | cible | Re | mov | als. | | |
| Tuberculosis | | | | | | | | 1 |
| Tuberculosis Diphtheria . | | | | | | | | 1 |
| Scarlet fever | | | | • | • | • | | 3 |
| | | I | Disin | ifect | ions | | | |
| Diphtheria . | | | | | | | | 143 |
| Scarlet fever | | | | | | | | 128 |
| Phthisis . | | | | | | , | | 221 |

| Wards. | Anterior Poliomyelitis. | Actinomycosis. | Asiatic Cholera. | Bubonic Plague. | Cerebro-spinal Meningitis. | Diphtheria. | Glanders. | Leprosy. | Malaria. | Malignant Pustule. | Measles. | Mumps. | Ophthalmia Neonatorum. |
|-------------------------------|----------------------------|----------------|------------------|-----------------|-------------------------------|-------------|-----------|----------|----------|-----------------------|----------|--------|---------------------------|
| 1 | | , | | | | 8 | | | | | 16 | 6 | 3 |
| 2 | | | | | 1 | 15 | | | | | 11 | | 9 |
| 3 | | | | | | 6 | | | | | 16 | 4 | 2 |
| 4 | . , | | | | | 3 | | | | | 28 | 6 | 2 |
| 5 | | | | | | 4 | | | | | 13 | 3 | 4 |
| 6 | | | | | | 19 | | | | | 22 | 22 | 10 |
| 7 | | | | | | 2 | | | | | 6 | 1 | 7 |
| 8 | | | | | | 9 | | | 1 | | 28 | 6 | 16 |
| 9 | | | | | | 6 | | | 1 | | 7 | 1 | 11 |
| 10 | | | | | | 2 | | | | | 8 | 1 | |
| 11 | | | | | | 6 | | | | | 13 | 19 | 3 |
| 12 | | | | | | 19 | | | | | 41 | 5 | 7 |
| 13 | | | | | | 5 | | | | | 3 | 3 | 6 |
| 14 | | | | | | 9 | | | | | 19 | 4 | 3 |
| 15 | | | | | | 4 | | | | | 10 | 5 | |
| 16 | | | | | | 6 | | | 1 | | 41 | 4 | 1 |
| 17 | 1 | | | | | 10 | | | | | 16 | 8 | 6 |
| 18 | | | | | | 7 | | | 1 | | 7 | 7 | 3 |
| 19 | | | | | | 17 | | | | | 25 | | 4 |
| 20 | | | | | | 22 | | | 1 | | 103 | 8 | 14 |
| 21 | | | | | 1 | 6 | | | | | 29 | 6 | 6 |
| 22 | | | | · · · · | | 2 | | | | | 18 | 2 | 2 |
| 23 | | | | | | 2 | | | | | 118 | 2 | 1 |
| 24 | | | | | , | 7 | | | | | 101 | 9 | 3 |
| 25 | 1 | | | | 1 | 5 | | | 1 | | 5 | 29 | 1 |
| 26 | | | | | | | | | | | 74 | 1 | 2 |
| Total | 2 | | | | 3 | 201 | | | 6 | | 778 | 162 | 126 |
| Unknown | | | | | | | | | | | | | |
| Nonresidents | | | | | | 4 | | | | | 5 | | 5 |
| Grand total | 2 | | | | 3 | 205 | | | 6 | | 783 | 162 | 131 |
| Corresponding month last year | 3 | | | | 5 | 133 | | 1 | 3 | | 721 | 29 | 111 |
| | | | | | | | | | | | | | |

Included in the nonresidents were the following cases brought to Boston

COMMUNICABLE DISEASES.

Cases Reported.

May, 1913.

| Scarlet Fever. | Smallpox. | Tetanus, | Trachoma. | Trichinosis. | Tuberculosis (Pulmonary and Miliary). | Tuberculosis (Other Forms). | Typhoid Fever. | Typhus Fever. | Varicella. | Whooping Cough. | Yellow Fever. | Wards, |
|----------------|-----------|----------|-----------|--------------|---|-----------------------------|----------------|---------------|------------|-----------------|---------------|--------------------------------|
| 1 | | | | | 11 | 1 | | | 3 | 7 | | |
| 6 | | | 1 | | 12 | 2 | 1 | | 3 | 7 | | 2 |
| 7 | | | | | 3 | | | | 2 | | | |
| 2 | , | | | | 5 | | | | 3 | 4 | | 4 |
| | | | | | 9 | 1 | | | | 2 | | 5 |
| 5 | | | 1 | | 17 | 1 | 1 | | 4 | 5 | | 6 |
| 6 | | | 1 | | 14 | 1 | | | 4 | 7 | | 7 |
| 5 | | | | | 21 | 2 | | | 13 | 8 | | 8 |
| 2 | | | | | 24 | 1 | | | 2 | 7 | | 9 |
| 1 | | | | | 15 | 2 | | | | 3 | | |
| 5 | | | | | 8 | 1 | | | 4 | 1 | | |
| 5 | | | | | 11 | | | | | | | |
| 2 | | | | | 15 | | | | | 13 | | |
| 10 | | | | | 7 | 1 | 1 | | 1 | 3 | | |
| 10 | | | | | 7 | | | | 2 | 2 | | |
| 5 | | | | | 12 | | | | 1 | 8 | | |
| 5 | | | | | 10 | 1 | 1 | | 3 | 4 | | |
| 1 | | | | | 16 | | 1 | | 4 | 8 | | |
| 4 | | | | | 9 | | | | 8 | 2 | | |
| 14 | | | | | 10 | 3 | 1 | | 5 | 24 | | |
| 12 | | | 1 | | 7 | 1 | | | 3 | 6 | | |
| | | | | | 11 | | | | 7 | 2 | | |
| 8 | | | | | 10 | | | | 5 | 2 | | |
| 11 | | | | | 11 | 1 | 1 | | 1 | 12 | | 24 |
| 13 | | | | | 7 | 2 | 1 | | 2 | 4 | | |
| | | | | | 4 | | | | 3 | 3 | | 26 |
| 140 | | | 4 | | 286 | 21 | 8 | | 83 | 144 | | Total |
| | | | | | 2 | | | | | | | |
| 12 | | | 7 | | 13 | 4 | | . , | | 1 | | Nonresidents |
| | | | | | | | | | | | | |
| 152 | | | 11 | | 301 | 25 | 8 | | 83 | 145 | | Grand total |
| 118 | 2 | | 4 | | 321 | 29 | 42 | | 194 | 80 | | Corresponding month last year. |

for treatment: Scarlet fever, 12; measles, 5, and diphtheria 4.

DIVISION OF CHILD HYGIENE.—MAY, 1913.

| 1 | Modical | Inspection | a f | Schoole |
|----|---------|------------|-----|----------|
| 1. | Medicai | HISDECTION | O1 | Schools. |

| 1. Medical Inspection of Schools. |
|---|
| Number inspections made |
| There were 1,835 pupils excluded from school during the month on account of the following diseases: |
| Diphtheria 3 Pediculosis 930 Scarlet fever 6 Acute or purulent conjunctivitis 37 Measles 11 tivitis 37 German measles 4 Ringworm 42 Chicken pox 19 Scabies 25 Whooping cough 15 Impetigo 29 Mumps 72 Favus 3 Pulmonary tuberculosis 3 Miscellaneous 544 Acute tonsilitis 92 |
| There were 10,097 cases of noncontagious disease found, subdivided as follows: |
| Diseases of oral and respiratory tract 2,223 Diseases of ear 110 Diseases of eye 505 Diseases of skin 870 Dental caries 2 072 Miscellaneous diseases 4,317 |
| 2. Physical Examination of Licensed Minors. |
| There were 144 girls and 220 boys, making a total of 364 persons, between the ages of 14 and 16 years examined during the month. Eighty-six were found to be without defects and 278 with defects, as follows: Hearing |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| 3. Pre=Natal and Post=Natal Work. |
| $Pre	ext{-}Natal.$ |
| Number cases 21 Number babies born 10 Number visits 35 Number babies died 4 |
| Mothers attended as follows: |
| Family physician $3 \mid \text{Midwife} \cdot \cdot$ |
| Breast-fed |
| Defective conditions noted: Varicose veins |
| Post-Natal. |
| Number cases 1,256 Number visits 3,413 |
| Number visited, not found, on account of removals, wrong |
| |
| addresses, etc., 83. Breast-fed |
| addresses, etc., 83. Breast-fed 985 Breast and bottle-fed 121 Bottle-fed |
| addresses, etc., 83. Breast-fed |

BACTERIOLOGICAL LABORATORY.

| BACTERIOLOGICAL LABORATORY. | |
|---|---|
| Negative for release. | nd |
| * K-L Vir. organisms, typhoid conradi, malaria, cholera, pus fcr T. B. B. coli, G-U. T. | В. |
| INSPECTION OF MILK, VINEGAR, ETC. | |
| Examination as to Statute Requirements. | |
| " milk from wagons. 6 " milk brought in by citizens. 5 " milk for bacteriological examination. 5 " ice ceam bacteriological examination. 5 " vinegar. 5 " butter and cheese. | 766 367 29 598 7 83 32 23 |
| Total samples | 205 |
| Unsatisfactory on first inspection. 156 Unsatisfactory on later inspection. 48 — 2 | 570 204 774 |
| Cattle inspected 301 Cattle condemned (2 whole) 710 H (parts) Calves inspected 993 (parts) 1,965 H Sheep inspected — Calves condemned (2 whole) 103 H Swine inspected 5,301 " (parts) 1,842 H | bs. bs. |
| INSPECTION OF PROVISIONS.— ARTICLES CONDEMNED. | |
| | sh. bs. |
| SANITARY INSPECTION DIVISION. | |
| New reports. 3,1 Reinspections. 11,6 New tenement house reports. 3 Nuisances reported. 6,4 Legal notices. 5 Court cases. 5 Fines. 5 Tenements vacated. 4 Houses demolished. 5 | 184 661 305 409 514 13 \$65 2 1 260 3 5 2 |
| QUARANTINE. | |
| Vessels inspected at quarantine | 79 362 |

MONTHLY METEOROLOGICAL SUMMARY. Taken at Weather Bureau, Boston, May, 1913.

| | | MPERATI DEGREE | S | midity. | itation. | Sun- | | WIND. | |
|--------|----------|-------------------|-------|-------------------|---------------------|-----------------------------|--|----------------------------------|--------------------------|
| DAY. | Махішиш. | Minimum. | Mean. | Relative Humidity | Daily Precipitation | Actual Hours Sun- shine. | Average Hourly Velocity. (Miles.) | Maximum Velocity. (Miles.) | Prevailing Direction. |
| 1 | 57 | 44 | 50 | 42 | 0 | 12.2 | 9.8 | 14 | N. W. |
| 2 | 66 | 46 | 56 | 61 | 0 | 11.1 | 6.8 | 16 | s. w. |
| 3 | 77 | 50 | 64 | 72 | 0 | 11.4 | 7.4 | 15 | E |
| 4 | 53 | 48 | 50 | 84 | 0 | . 8.5 | 8.8 | 14 | E. |
| 5 | 78 | 48 | 63 | 74 | - 0 | 7.7 | 6.6 | 14 | s. w., s. |
| 6 | 77 | 53 | 65 | 78 | Т | 9.3 | 7.2 | 19 | s. w. |
| 7 | 70 | 52 | 61 | 72 | 0 | 7.1 | 8.1 | 17 | N. E. |
| 8 | 56 | 47 | 52 | 56 | 0 | 14.3 | 11.0 | 16 | N. |
| 9 | 64 | 47 | 56 | 66 | .01 | 3.8 | 11.9 | 19 | s. w. |
| 10 | 50 | 39 | 44 | 46 | 0 | 10.2 | 15.5 | 25 | N. W. |
| 11 | 55 | 37 | 46 | 44 | 0 | 11.2 | 15.2 | 27 | N. W. |
| 12 | 64 | 42 | 53 | 38 | 0 | 13.4 | 9.7 | 16 | N. W. |
| 13 | 68 | 48 | 58 | 56 | Т | 9.9 | 11.9 | 25 | s. w. |
| 14 | 71 | 49 | 60 | 46 | 0 | 14.5 | 11.8 | 23 | N. W. |
| 15 | 65 | 44 | 54 | 47 | T | 12.3 | 8.5 | 17 | s. w. |
| 16 | 55 | 41 | 48 | 93 | .43 | 0 | 9.3 | 18 | N. E. |
| 17 | 50 | 41 | 46 | 89 | 0 | 7.9 | 8.7 | 14 | E. |
| 18 | 52 | 46 | 49 | 84 | 0 | 4.6 | 6.6 | 13 | E. |
| 19 | 66 | 51 | 58 | 61 | 0 | 14.4 | 14.9 | 26 | w. |
| 20 | 68 | 47 | 58 | 46 | 0 | 14.5 | 11.0 | 24 | W., N. W. |
| 21 | 62 | 51 | 56 | 57 | Т | 10.5 | 8.2 | 15 | N.W.,S.E. |
| 22 | 57 | 50 | 54 | 96 | .56 | 0.1 | 7.1 | 14 | E., S. E. |
| 23 | 59 | 48 | 54 | 97 | 1.09 | 0 | 4.7 | 12 | E. ' |
| 24 | 58. | 52 | 55 | 94 - | .27 | 0 | 6.9 | 12 | N. E. |
| 25 | 62 | 48 | 55 | 92 | .07 | 7.3 | 5.8 | 14 | N. E. |
| 26 | 62 | 50 | 56 | 74 | 0 | 13.6 | 8.9 | 18 | N. W. |
| 27 | 58 | 48 | 53 | 76 | Т | 7.2 | 9.5 | 19 | E. |
| 28 | 52 | 46 | 49 | 93 | .63 | 0 | 10.4 | 16 | N. E. |
| 29 | 65 | 51 | 58 | 79 | .16 | 7.5 | 16.1 | 34 | N.W. |
| 30 | 75 | 51 | 63 | 62 | 0 | 15.0 | 15.8 | 30 | w. |
| 31 | 76 | 56 | 66 | 56 | Т | 12.2 | 8.3 | 17 | w. |
| Totals | _ | _ | _ | _ | 3.22 | 271.7 | * | | |
| Means | 62.8 | 47.5 | 55,2 | 68.7 | 0.10 | 8.8 | 60% | 29th | N. W. |

Latitude 42 degrees 21 minutes.

Longitude 71 degrees 4 minutes.

BOSTON WARD MAP.





No. 6

MONTHLY BULLETIN

OF THE

HEALTH DEPARTMENT

OF THE

CITY OF BOSTON



| | | | | | | PAGE |
|---------------------------|--|--|----|--|--|-------|
| Vital Statistics for June | | | ٠, | | | . 133 |
| Monthly Reports | | | | | | . 144 |

CITY OF BOSTON PRINTING DEPARTMENT 1913

ORGANIZATION OF THE HEALTH DEPARTMENT

FRANCIS X. MAHONEY, M. D., Chairman. P. H. MULLOWNEY, M. D. V.

F. H. SLACK, M. D., Secretary.

MONTHLY BULLETIN

OF THE

HEALTH DEPARTMENT OF THE CITY OF BOSTON.

All communications relating to this publication should be addressed to BULLETIN OF THE HEALTH DEPARTMENT, 100 Summer St., Boston.

Vol. 2.

BOSTON, JUNE, 1913.

No. 6.

SUMMARY OF VITAL STATISTICS FOR THE MONTH OF JUNE, 1913.

Boston had 887 deaths in June, 1913, compared with 807 for June of last year; and a death rate of 14.67 against 13.64 for June, 1912. Deaths of nonresidents numbered 120 against 103 a year ago. Deducting deaths of nonresidents the corrected death rate for June, 1913, was 12.69 against 11.90 for June, 1912.

Of deaths from reportable diseases the principal decreases were tuberculosis (all forms) 11; typhoid fever, 6, and measles, 3; and the principal increases were diphtheria, 11; scarlet fever, 7, and whooping cough, 5.

Other important differences were as follows:

| June, 1913, decrea | ases o | comp | ared | with | ı Jui | ne, 1 | 912: | | | |
|--------------------|--------|------|------|------|-------|--------|------|--|--|----|
| Diarrhea and | | | | | | | | | | |
| "Other disea | ses " | | | | | | | | | 10 |
| June, 1913, increa | ses c | omp | ared | with | Jur | ie, 19 | 912: | | | |
| Organic hear | | | | | | | | | | |
| Pneumonia | | | | | | | | | | 19 |
| Broncho-pnet | ımon | ia | | | | | | | | 18 |
| Apoplexy | | | | | | | | | | 14 |
| Cancer . | | | | | | | | | | |

Ward 11 had the lowest death rate, 7.12, and Ward 7 the highest, 19.32.

There were 14 less deaths under one year than in June, 1912, 8 more under 5 years, and 45 more over 60.

The total deaths under one year numbered 121, which is 19 less than the average for June for the preceding 5 years. Fifty-three of these deaths were due to premature birth,

congenital debility, malformations and other diseases peculiar to early infancy; 22 to diarrhea and enteritis; 15 to pneumonia and broncho-pneumonia; 15 to reportable diseases, and 16 to "other causes."

Of these deaths under one year, Ward 20 had the largest number, 16, and Ward 6 came next with 11.

Seventy were over two weeks old and of these 50 were bottle fed.

GENERAL STATISTICS.

Population, Ward Area, Persons to Acre, and Rates.

| | | us. | la- | | STILLB | RTHS E | XCLUDED. |
|----------|---------------------|--------------------------|--|--|--|--|--|
| | Land Area in Acres. | Population, 1910 Census. | Persons to Acre of Land. (Using Census Population.) | Population, Estimated, July 1, 1913.† | Death Rates, 1912. (Population, Estimated.)† | Birth Rates, 1911. (Population, Estimated.)† | Death Rates, 1912, of Children Under One Year, Per 1,000 Births, 1911. |
| * Boston | 27,674 | 686,092 | 24.8 | 735,399 | 16.17 | 25.99 | 119.35 |
| Wards 1 | 1,188 | 29,676 | 24.9 | 32,439 | 13.05 | 24.90 | 104.58 |
| 2 | 357 | 28,812 | 80.7 | 30,676 | 17.11 | 33.37 | 120.81 |
| 3 | 332 | 15,339 | 46.2 | 15,667 | 15.29 | 26.84 | 106.02 |
| 4 | 301 | 13,294 | 44.1 | 13,808 | 18.02 | 25.50 | 148.26 |
| 5 | 207 | 12,811 | 61.9 | 12,914 | 16.69 | 24.28 | 118.59 |
| 6 | 293 | 35,758 | 122.0 | 39,492 | 16.18 | 48.81 | 100.33 |
| 7 | 394 | 14,913 | 37.9 | 14,483 | 20.05 | 26.57 | 94.39 |
| 8 | 171 | 32,430 | 189.6 | 33,479 | 12.07 | 33.21 | 70.64 |
| 9 | 186 | 26,427 | 141.5 | 29,214 | 15.13 | 27.40 | 106.24 |
| 10 | 394 | 25,320 | 64.3 | 26,277 | 11.86 | 10.51 | 114.81 |
| 11 | 663 | 27,444 | 41.4 | 30,738 | 9.69 | 14.22 | 63.73 |
| 12 | 235 | 24,294 | 103.4 | 25,948 | 14.98 | 14.57 | 181.82 |
| 13 | 611 | 21,561 | 35.3 | 21,501 | 17.24 | 31.11 | 117.91 |
| 14 | 405 | 23,584 | 58.2 | 24,527 | 14.44 | 24.14 | 115.92 |
| 15 | 277 | 21,216 | 76.6 | 21,803 | 14.80 | 20.25 | 119.82 |
| 16 | 564 | 25,633 | 45.6 | 28,033 | 12.75 | 24.23 | 110.42 |
| 17 | 460 | 26,426 | 57.4 | 27,793 | 15.49 | 25.65 | 117.22 |
| 18 | 220 | 22,735 | 103.3 | 23,133 | 17.08 | 25.08 | 99.30 |
| 19 | 760 | 31,714 | 41.7 | 33,332 | 13.77 | 22.77 | 111.41 |
| 20 | 1,716 | 55,720 | 32.5 | 64,723 | 12.97 | 20.33 | ‡158.90 |
| 21 | 640 | 30,511 | 20.5 | 33,085 | 13.54 | 17.53 | 85.14 |
| 22 | 760 | 29,975 | 38.1 | 31,403 | 12.50 | 20.55 | 100.48 |
| 23 | 7,617 | 30,668 | 4.0 | 33,423 | 12.13 | 19.93 | 94.94 |
| 24 | 3,252 | 37,749 | 11.6 | 41,695 | 12.63 | 23.73 | 103.11 |
| 25 | 2,740 | 26,575 | 9.7 | 29,661 | 11.95 | 24.73 | 96.21 |
| 26 | 2,869 | 15,507 | 5.4 | 16,152 | 12.29 | 29.59 | 107.30 |

^{*} Hyde Park was annexed to Boston January 1, 1912, and became Ward 26. Under "Boston," in the above table, Hyde Park statistics are included.

[†]Population estimated by arithmetical method, using the censuses of 1905 and 1910. ‡An infant asylum is located in this ward.

June. General Summary.

| | | | | 1913. | 1912. |
|------------------------|--|--|--|---------|---------|
| Total deaths | | | | 887 | 807 |
| Population, estimated* | | | | 735,399 | 720,031 |
| Death rate per 1,000 | | | | 14.67 | 13.64 |
| Deaths of nonresidents | | | | 120 | 103 |
| Corrected death rate† | | | | 12.69 | 11.90 |

^{*}Population estimated by arithmetical method, using the censuses of 1905 and 1910.

†Nonresidents not included.

June, 1913. Statement of Deaths.

| Total number (stillbirths ex- | | NATIVITY. | | | | | | | |
|-------------------------------|-------|-------------------|------|-----|-----|--|--|--|--|
| cluded) | 887 | United States . | | | 532 | | | | |
| | | Ireland | | | 145 | | | | |
| Sex. | | England and Wales | | | 17 | | | | |
| 1022704 | 4 - 4 | Scotland | | | 9 | | | | |
| | 474 | Germany | | | 19 | | | | |
| Females | 413 | Canada | | | 61 | | | | |
| | | Italy | | | 33 | | | | |
| Condition. | | Russia and Poland | | | 33 | | | | |
| Single | 408 | Sweden and Norway | | | 13 | | | | |
| Married | 281 | France | | | 1 | | | | |
| Widowed | 186 | Other countries . | | | 14 | | | | |
| To: 1 | | Unknown | | | 10 | | | | |
| Divorced | 3 | NATIVITY OF M | OTHE | RS. | | | | | |
| Unknown | 9 | United States . | | | 217 | | | | |
| | | Ireland | | | 288 | | | | |
| Color. | | England and Wales | | | 29 | | | | |
| White | 858 | Scotland | | | 14 | | | | |
| Black (negro or mixed) | 27 | Germany | | | 24 | | | | |
| Chinese | 2 | Canada | | | 78 | | | | |
| Deaths of children: | | Italy | | | 63 | | | | |
| | 121 | Russia and Poland | | | 59 | | | | |
| Under one year | | Sweden and Norway | | | 14 | | | | |
| Under two years | 159 | France | | | 1 | | | | |
| Under five years | 201 | Other countries . | | | 20 | | | | |
| Stillbirths during the month, | 70 | Unknown | | | 80 | | | | |

| Julie, 1710. | | | | | | | | | | | | |
|--------------------------------|--|-------|-------|------------|----------|----------|-----------|----------|------------|------------|------------|------------|
| List umber. | | Тот | ALS. | Year. | | | | | Years. | Years. | Years. | Years. |
| Abridged List Class Number. | CAUSES OF DEATH. | 1913. | 1912. | Under 1 3 | 1 Year. | 2 Years. | 3 Years. | 4 Years. | Under 5 | 5 to 9 Yea | 10 to 14 3 | 15 to 19 3 |
| | Total, all causes $\begin{cases} 1913 \\ 1912 \end{cases}$ | 887 | 807 | 121 135 | 38 29 | 20 20 | 10 1 | 12 8 | 201 193 | 23 18 | 12 10 | 14 17 |
| 1 | Typhoid fever | 2 | 8 | | | | | | | | | |
| 3 | Malarial fever | | | | | | | | | | | |
| 4 | Smallpox | | | | | | | | | | | |
| 5 | Measles | 6 | 9 | 1 | 4 | 1 | | | 6 | | | |
| 6 | Scarlet fever | 8 | - 1 | | 2 | 1 | 1 | | 4 | 3 | 1 | |
| 7 | Whooping cough | 6 | : 1 | 4 | | 1 | 1 | | 6 | | | |
| 8 | Diphtheria and croup | 18 | 7 | .2 | 2 | 6 | 1 | 2 | 13 | 2 | 1 | |
| 9 | Influenza | 2 | 2 | | | | | | | | | |
| 12 | Other epidemic diseases | 3 | 6 | 2 | 1 | | | | 3 | | | j |
| 13 | Tuberculosis of the lungs | 80 | 99 | | 2 | 2 | 1 | . 1 | 6 | | 1 | 5 |
| 14 | Tuberculous meningitis | 16 | 12 | 5 | 3 . | 1 | | | 9 | 3 | • 1 | 1 |
| 15 | Other forms of tuberculosis | 11 | 7 | 1 | | 3 | 1 | 1 | 6 | | 1 | 1 |
| 16 | Cancer, malignant tumor | 68 | 57 | | | | | | | | | |
| 17 | Simple meningitis (except cerebrospinal meningitis). | - 8 | 3 | | 4 | 1 | | | 5 | | | |
| 17a | Cerebro-spinal meningitis | 3 | 3 | 2 | | | | | 2 | | | |
| 18 | Apoplexy and softening of the brain, | 48 | 34 | | | | | | | | | |
| 19 | Organic heart diseases | 121 | 96 | | 1 | | | | 1 | 3 | 1 | - 1 |
| 20 | Acute bronchitis | 4 | 2 | 2 | | | | | 2 | | | |
| 21 | Chronic bronchitis | 1 | 1 | | | | | | | | .: | |
| 22 | Pneumonia (except broncho-pneumonia). | 66 | 47 | 6 | 5 | 1 | 1 | | 13 | 1 | 1 | |
| 22a | Broncho-pneumonia | 34 | 16 | 9 | 4 | | 1 | | 14 | 1 | | |
| 23 | Other respiratory diseases | 6 | 7 | 1 | 1 | | | | 2 | | | |
| 24 | Diseases of the stomach (cancer excepted). | . 3 | 8 | | | | | | | | | |
| 25 | Diarrhea and enteritis (under two years). | 26 | 34 | 22 | 4 | | | | 26 | | | |
| 26 | Appendicitis and typhlitis | 5 | 7 | | | | | | | | 1 | 1 |
| 27 | Hernia, intestinal obstruction | 7 | 9 | | 1 | | | | 1 | | | |
| 2 8 | Cirrhosis of liver | 7 | 3 | | | | | | | | | |
| 29 | Bright's disease and nephritis | 64 | 64 | 1 | | | | | 1 | 1 | | |
| 30 | Diseases of women (not cancer) | 4 | 4 | | | | | | | | | |
| 31 | Puerperal septicemia | 4 | 3 | | | | | | | | | |
| 32 | Other puerperal diseases | 7 | 4 | | | | | | | ≈. | | |
| 33 | Congenital debility and malformations. | 44 | 40 | 41 | | . 1 | | | 42 | 1 | | |
| 35 | Violent deaths | 60 | 59 | 2 | 2 | 1 | 1 | 6 | 12 | 4 | 1 | 9 |
| 36 | Suicide | 9 | 6 | 2 | 2 | 1 | 1 | 0 | 12 | 4 | 1 | 3 |
| 37 | Other diseases | | | | | | | | 07 | | | 1 |
| | | 136 | 146 | 20 | 2 | 1 | 2 | 2 | 27 | 4 | 3 | 1 |
| 38 | Ill-defined causes | | 2 | | | | • • • • • | | | | | |

| ears. | Years. | Years. | Years. | ears. | Years. | 54 Years. | Years. | ears. | ears. | ears. | ears. | ears. | ears. | pu | | Sex. | ist mber. |
|-----------------|------------|------------|------------|-----------------|------------|------------|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------------|------------|------------|--------------------------------|
| 20 to 24 Years. | 25 to 29 Y | 30 to 34 Y | 35 to 39 Y | 40 to 44 Years. | 45 to 49 Y | 50 to 54 Y | 55 to 59 Y | 60 to 64 Years. | 65 to 69 Years. | 70 to 74 Years. | 75 to 79 Years. | 80 to 84 Years. | 85 to 89 Years. | 90 Years and over. | Males. | Females. | Abridged List Class Number. |
| 34 34 | 3) 43 | 43 48 | 47 42 | 65 50 | 50 45 | 42 49 | 66 43 | 61 49 | 55 49 | 59 50 | 44 28 | 25 19 | 12 18 | 4 2 | 474 429 | 413 378 | |
| 1 | | 1 | | | | | | | | | | | | | 2 | | 1 |
| | | | | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | 4 |
| • • • • • | | | | | | | | | | | | | | | 3 | 3 | 5 |
| | | | | | | | | | | | | | | | 5 | 3 | 6 |
| | | | | | | | | | | | | | | | 2 | 4 | 7 |
| 1 | | | | | | | 1 | | | | | | | | 8 | 10 | 8 |
| | | | | | | | 1 | 1 | | | | | | | 2 | | 9 |
| • • • • • | | | | | | | | | | | | | | | 2 | 1 | 12 |
| 12 | 13 | 7 | 10 | 7 | 6 | 6 | 2 | 1 | 1 | 3 | | | | | 39 | 41 | 13 |
| 1 | | 1 | | | | | | | | | | | | | 8 | 8 | 14 |
| • • • • • | 1 | 1 | | 1 | | | | | | | | | | | 5 | 6 | 15 |
| | | | 2 | 5 | 5 | 5 | 11 | 11 | 12 | 7 | 7 | 1 | 1 | 1 | 29 | 39 | 16 |
| • • • • • | | 2 | | 1 | | | | | | | | | | | 1 | 7 | 17 |
| • • • • • | | · · · · · | | 1 | | | | | | | | | | | | 3 | 17a |
| • • • • • | | | 1 | 5 | 1 | 1 | 5 | 8 | 4 | 6 | 8 | 5 | 3 | 1 | 26 | 22 | 18 |
| 2 | 1 | 3 | 2 | 4 | 7 | 9 | 11 | 23 | 13 | 16 | 12 | 7 | 4 | 1 | 66 | 55 | 19 |
| | | | | | | | | | | | 2 | | | | 1 | 3 | 20 |
| • • • • • | | | | | | | | | | | 1 | | | | 1 | | 21 |
| 2 | 2 | 2 | 3 | 7 | 5 | 8 | 8 | 4 | 4 | 2 | 1 | 3 | | | 40 | 26 | 22 |
| | 1 | 3 | 2 | 1 | 1 | | 1 | 1 | 1 | 3 | 3 | 2 | | | 16 | 18 | 22a |
| • • • • • | | 1 | | 1 | 1 | | | 1 | | | | | | | 5 | 1 | 23 |
| • • • • • | | | | | | | 1 | 1 | | | | 1 | | | 1 | 2 | 24 |
| • • • • • | | | | | | | | | | | | | | | 14 | 12 | 25 |
| | | 1 | 1 | 1 | | | | | | | | | | | 5 | | 26 |
| 1 | | | 1 | 2 | 1 | | | 1 | | | | | | | 3 | 4 | 27 |
| • • • • • | | | 1 | 1 | 1 | 1 | 2 | , | 1 | | | | | | 6 | 1 | 28 |
| 5 | 1 | 4 | 5 | 3 | 2 | 6 | 10 | 6 | 8 | 7 | 3 | 1 | 1 | | 30 | 34 | 29 |
| 1 | | | | 3 | | | | | | | | | | | | 4 | 30 |
| 1 | 1 | 1 | 1 | | | | | | | | | | | | | 4 | 31 |
| 1 | 2 | 3 | 1 | | | | | | | | | | | | | 7 | |
| • • • • • | | | | 1 | | | | | | | | | | | 28 | 16 | 33 |
| • • • • • | | | | | | | | | | | | | | | | | 34 |
| 4 | 7 | | 4 | 8 | 5 | 2 | 2 | | 1 | 2 | | 1 | | | 45 | 15 | 35 |
| | | 3 | 1 | 2 | 2 | | | | | | | | | | 8 | 1 | 36 |
| 2 | 1 | 6 | 12 | 11 | 13 | 4 | 11 | 3 | 10 | 13 | 7 | 4 | 3 | 1 | 73 | 63 | 37 |
| | | | | | | | | | | | | | | | | | 38 |

| Abridged List Class Number. | CAUSES OF DEATH. | 'n. | WARD RESIDENCE. | | | | | | | | | | | | |
|--------------------------------|---|---------|-----------------|-----------------|-------|-------|-------|-------|-------|-------|-------|--------------|--------------|--|--|
| Abrid | | Boston. | 1. | 2. | 3. | 4. | .5. | 6. | 7. | 8. | 9. | 10. | 11. | | |
| | All causes | 887 | 40 | 23 | 15 | 18 | 17 | 36 | 23 | 32 | 26 | 17 | 18 | | |
| | Rates per 1,000 popula- 1913 | 14.67 | 15.00 12.33 | $9.12 \\ 17.38$ | 11.65 | 15.86 | 16.02 | 11.09 | 19.32 | 11.64 | 10.83 | 7.87 7.02 | 7.12 5.32 | | |
| 1 | Typhoid fever | 2 | | | | | | | | | | 1.02 | 0.02 | | |
| 3 | Malarial fever | | | | | | | | | | | | | | |
| 1 | Smallpox | | | | | | | | | | | | | | |
| 5 | Measles | 6 | 1 | 1 | | | | | | | | | 1 | | |
| 6 | Scarlet fever | 8 | | | | | 1 | | | 1 | | | | | |
| 7 | Whooping cough | 6 | | | | | | | | | | | | | |
| 8 | Diphtheria and croup | 18 | 1 | 1 | : | | | . 2 | | 1 | 1 | | •••• | | |
| 9 | Influenza | 2 | 1 | | | | | | | | | | | | |
| 12 | Other epidemic diseases | 3 | | | | | | 1 | | 1 | | | | | |
| 13 | Tuberculosis of the lungs | 80 | 2 | 1 | 2 | 3 | 5 | | 4 | 3 | 4 | 1 | 1 | | |
| 14 | Tuberculous meningitis | 16 | | 2 | | | | 1 | 1 | 1 | : | | | | |
| 15 | Other forms of tuberculosis | 11 | | | | | | 1 | | 1 | 1 | . | | | |
| 16 | Cancer, malignant tumor | 68 | 6 | 1 | 1 | 2 | 1 | 1 | | | | 3 | 2 | | |
| 17 17a | Simple meningitis (except cerebro-spinal meningitis). Cerebro-spinal meningitis | 8 | | | | | | | | 1 | | | | | |
| 18 | Apoplexy and softening of the | 48 | 3 | 1 | 2 | 1 | 2 | 1 | 1 | | | 1 | | | |
| 19 | brain. Organic heart diseases | 121 | . 7 | 7 | 1 | 1 | 2 | 4 | 2 | 8 | 2 | 1 | 6 | | |
| 20 | Acute bronchitis | 4 | | | | | | 1 | 1 | | | | | | |
| 21 | Chronic bronchitis | 1 | | | | | | | | | | | | | |
| 22 | Pneumonia (except broncho- | 66 | 2 | 1 | | | 1 | 9 | 5 | 3 | 5 | | | | |
| 22a | pneumonia). Broncho-pneumonia | 34 | | | 1 | | 1 | 5 | | | 1 | 1 | 2 | | |
| 23 | Other respiratory diseases | 6 | | | | 1 | | | | | | | | | |
| 24 | Diseases of the stomach (cancer excepted). | 3 | 1 | | | | | | , | | | | | | |
| 25 | Diarrhea and enteritis (under two years). | 26 | 1 | | 1 | | | | 2 | | | | 1 | | |
| 26 | Appendicitis and typhlitis | 5 | | | | | | | | | | | | | |
| 27 | Hernia, intestinal obstruction, | 7 | | | | 1 | | 1 | | | | | | | |
| 28 | Cirrhosis of liver | 7 | 1 | | | | | 1 | | 2 | | | | | |
| 29 | Bright's disease and nephritis | 64 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 3 | 2 | 2 | | | |
| 30 | Diseases of women (not cancer), | 4 | | | | | | | | | | 1 | | | |
| 31 | Puerperal septicemia | 4 | . 1 | 1 | | : : | | | | | | 1 | | | |
| 32 | Other puerperal diseases | 7 | | | | | 1 | 1 | | | 1 | | | | |
| 33 34 | Congenital debility and malformations. Old age | 44 | 1 | | 1 | | | 1 | 1 | 1 | 2 | 1 | 1 | | |
| 35 | Violent deaths | 60 | 3 | 2 | | 3 | 1 | | 3 | 2 | 2 | 1 | 3 | | |
| 36 | Suicide | 9 | | | | | | 1 | | 1 | | | | | |
| 37 | Other diseases | 136 | 8 | 3 | 5 | 5 | 1 | 4 | 2 | 3 | 5 | 4 | 1 | | |
| 38 | Ill defined causes | | | | | | | | | | | | | | |
| | Total deaths under one year | 121 | 4 | 4 | 2 | 3 | | 11 | 2 | 2 | 4 | 1 | 2 | | |

| | WARD RESIDENCE. | | | | | | | | | | | | | | Boston, Ward Unknown. | Nonresidents. | lown. | Abridged List Class Number. |
|----------------|-----------------|----------------|------------------|------------------|---------------|------------------|----------------------|------------------|----------------|------------------|--------------|----------------|-----------------|---------------|--------------------------|---------------|----------|--------------------------------|
| 12. | 13. | 14. | 15. | 16. | 17. | 18. | 19. | 20. | 21. | 22. | 23. | 24. | 25. | 26. | Bosto | Nonre | Unknown. | Abrid Class |
| 26 | 26 | 36 | 21 | 28 | 26 | . 29 | 41 | 66 | 37 | 38 | 27 | 51 | 26 | 15 | 1 | 120 | 8 | |
| 12.19 11.96 | 14.71 14.13 | 17.86 14.06 | $11.72 \\ 11.26$ | $12.15 \\ 12.49$ | 11.38 8.89 | $15.25 \\ 14.28$ | $\frac{14.97}{7.78}$ | $12.41 \\ 12.58$ | 13.61 13.19 | $14.72 \\ 13.76$ | 9.83 9.71 | 14.88 11.43 | $10.66 \\ 9.75$ | 11.30 6.10 | | • • • • | | |
| | | | | 1 | | | | | | 1 | | | | | 1 | | , | 1 |
| | | | | | | | ***** | | | | • • • • • | | | | | | | 3 |
| | | | | | | | 1 | | | | | 1 | | | | 1 | | 5 |
| | 1 | | . , | | | | | . 1 | | | | | | | | 4 | | 6 |
| | 1 | | | | 1 | 1 | | 2 | | | • • • • • | | | | | 1 | | 7 |
| | • • • • • | | | | | 1 | 1 | 2 | | 1 | 1 | | | 1 | | 5 | | 8 |
| | | | | | | | | | | | | | | | | 1 | | 9 |
| 3 | 3 | 3 | 1 | 3 | 4 | 3 | 1 5 | 4 | 2 | 6 | 2 | 5 | 1 | 1 | | 6 | 2 | 13 |
| | 1 | | | | 1 | | 2 | | 2 | 1 | | 1 | | | | 3 | ! . | 14 |
| | | | | | | 1 | 1 | 1 | | | 2 | | | | | 3 | | 15 |
| 2 | | 2 | 2 | 6 | 2 | 3 | 2 | 6 | 3 | | 3 | 6 | 1 | | | 12 | 1 | 16 |
| | | 1 | | | | | | 1 | | | 1 | 1 | 3 | | | 1 | | 17 |
| 1 | | 1 2 | 1 | 2 | 1 | 3 | 2 | 5 | 4 | 1 | 1 | 5 | 4 | | | 5 | | 17a |
| 7 | 2 | 4 | 5 | | 5 | 5 | 8 | 8 | 5 | 8 | 2 | 6 | 9 | 2 | | 4 | | 19 |
| | 2 | | | | | | | | | | | | | | | | | 20 |
| | | | | | | | | | | | | 1 | | | | | | 21 |
| 3 | 4 | 2 | 1 | 4 | 3 | 2 | 5 | 4 | 2 | 1 | 1 | 1 | 4 | | 1 | 1 | 1 | 22 |
| 1 | | 4 | | 4 | 1 | | 2 | 1 | 3 | 1 | | 3 | 1 | • • • • • | | 3 | | 22 <i>a</i> 23 |
| ***** | | | | | | | | | 1 | 1 | | | | | | 3 | | 24 |
| | 1 | 1 | | | | | | 5 | 1 | | | 1 | 1 | 2 | | 7 | 2 | 25 |
| | | | | | | | | 1 | | 1 | 1 | | | | | 2 | | 26 |
| 1 | | | | | · 1 | 1 | | | | 1 | | | | | | 1 | | 27 |
| | | | | | | 1 | | | | 1 | 1 | | | | | | | 28 |
| 1 | 6 | 4 | 6 | 1 | 1. | 3 | 3 | 5 | 6 | 2 | 1 | 3 | •••• | 3 | | 4 2 | | 30 |
| | | | | | | 1 | S - * | | | | | lan en a | | \$ 10.00 G S | | | 5 | 31 |
| | | 1 | | | | | | | | | | | | | l | 3 | | 32 |
| 2 | | 3 | 2 | 2 | | 1 | 2 | 8 | | | 5 | 1 | 1 | 1 | | 7 | | 33 |
| | | | | | | | | | | | S # # # * | | in a section of | | | B. 4.4 6 | 6 | 34 |
| 2 | | 3 | 2 | 1 | 1 | 2 | 2 | 44 | 2 | 1 | 3 | 3 | 1 | 2 | | 13 | 2. | 35 |
| 1 | 5 | 5 | 1 | 4 | 4 | 1 | 3 | 11 | 5 | 9 | 3 | 13 | | 3 | 6 | | | 36 |
| | | | | | | | | | | | | | | | | | | 38 |
| 3 | 5 | 4 | 2 | 4 | 1 | 2 | 7 | 16 | 1 | 3 | 5 | 7 | 2 | . 3 | | 19 | 2 | |

VITAL STATISTICS. June, 1913, Infant Mortality.

| Detailed List Class Number. | CAUSES OF DEATH. | | NE PALS, DER EAR. | Under 1 Day. | to 2 Days. | to 3 Days. | Days to I Week. | to 2 Weeks. | 2 to 3 Weeks. | Weeks to I Month. | 2 Months. | 3 Months. | to 6 Months. | 9 Months. | 12 Months. | Fed. | Bottle Fed. | Nonresidents. |
|--------------------------------|--------------------------------|-------|----------------------------|--------------|------------|------------|-----------------|-------------|---------------|-------------------|-----------|-----------|--------------|-----------|------------|--------|--|--|
| Det | | 1913. | 1912. | Und | I to | 2 to | 3 D | I to | 2 to | 3 W | 1 to | 2 to | 3 to | 6 to | 9 to | Breast | Bot | Nor |
| | Total | 121 | 135 | 25 | 5 | 5 | 11 | 5 | 4 | 4 | 6 | 10 | 20 | 16 | 10 | 20 | 50 | 19 |
| | Male | 66 | 71 | 14 | 3 | 5 | 8 | 2 | 3 | 3 | 4 | 4 | 10 | 5 | 5 | 8 | 26 | 13 |
| 1 | Female | 55 | 64 | 11 | 2 | | 3 | 3 | 1 | 1 | 2 | 6 | 10 | 11 | 5 | 12 | 24 | 6 |
| | White | 118 | 132 | 25 | 5 | 5 | 10 | 5 | 4 | 4 | 6 | 10 | 19 | 15 | 10 | 19 | 49 | 19 |
| | Colored | 3 | 3 | | | | 1 | | ٠ | | | | 1 | 1 | | 1 | 1 | |
| 1 | Typhoid fever | | | | | | | | | | | | | | | | | |
| 5 | Smallpox | | | | | | | | | | | | | | | | | |
| 6 | Measles | 1 | 3 | | | | | | | | | | | | 1 | | 1 | |
| 7 | Scarlet fever | | | | | | | | | | | | | | | | | |
| 8 | Whooping cough | 4 | 1 | | | | | | | | 1 | | 1 | 2 | | | 4 | |
| 9 | Diphtheria and croup | 2 | 1 | | | | | | | | | 1 | | | 1 | | 2 | 1 |
| 10 | Influenza | | | | | | | | | | | | | | | | | |
| 14 | Dysentery | | | | | | | | | | | | | | | | | |
| 18 | Erysipelas | 2 | | | | | | | | | 1 | 1 | | | | 1 | 1 | |
| 19 | Other epidemic diseases | 1 | | | | | | 1 | | | | | | | | | | |
| 20 | Pus-infection and septicemia, | | | | | | | | | | | | | | | | | |
| 24 | Tetanus | | | | | | | | | | | | | | | | | |
| 28 | Tuberculosis of the lungs | | | | | | | | | | | | | | | | | • • • |
| 29 | Acute miliary tuberculosis | | | | | | | | | | | | | | | | | |
| 30 | Tuberculous meningitis | | | | | | | | | | | | 3 | 1 | 1 | 2 | | |
| 31 35 | Other forms of tuberculosis | | | | | | | | | | | 1 | - • • | | | | 1 | 1 |
| 36 | Rickets | | | | | | | | | | | | | | | | | |
| 37 | Syphilis | | 2 | | | | | | | | | | | | | | | |
| 38 | Gonococcus infection | | | | | | | | | | | | | | | | | |
| 61 | Simple meningitis | | | | | | | ٠ | | | | | | | | | | |
| 61 <i>a</i> | Cerebro-spinal fever | | | | | | | | | | | | 2 | | | 1 | 1 | |
| 63a | Acute poliomyelitis | | | | | | | | | | | | | | | | | |
| 71 76 | Convulsions | | İ | | 1 | | | | | | | 1 | | | | 1 | | |
| 76 | Diseases of the ears | | 1 | | | | | | | | | | 1 | | | 1 | | |
| | Organic diseases of the heart, | | ,. | | | | | | | | | | | | | | | |
| 89 91 | Acute bronchitis | | } | | | | 1 | | | | | | | | | | | |
| 91 | Broncho-pneumonia | | | | | | | | | | | | 1 | ١., | | 5 | | |
| 92 | Pneumonia | | | | | | | 1 | | | | | | | | 3 | $\begin{bmatrix} 2 \\ 1 \end{bmatrix}$ | |
| 103 | Other diseases of stomach | | 2 | | | | | | ļ. | | 1 | | | 1 | 1 | | 1 | 1 |
| 103 | Diarrhea and enteritis | | | | | 1 | | | | 1 | | | | 2 | 3 | 1 | 20 | 7 |
| 104 | Appendicitis and typhlitis | | 30 | | | 1 | | | | | ì | | | 2 | | | | |
| | rippondicions and typnitis | | | | 1 | | | | | | | | 1 | | | | | <u> </u> |

VITAL STATISTICS.

June, 1913, Infant Mortality.—Concluded.

| 1 |
|---|
| |
| 1 1 |
| |
| |
| 2 1 |
| |
| 1 2 4 |
| 3 2 |
| • |
| |
| 1 |
| |
| |
| |
| |
| 1 1 1 |
| 20 1 |
| 50 16 |
| 1 16 19 |
| |

^{*} Aged two weeks and over.

Additional Deaths for Other Months.

- March, 1913.—1 female; traumatism by fall; white; aged 45 years; condition unknown; residence unknown; birthplace unknown; birthplace of mother unknown.

 13.—1 male; tuberculosis; white; aged 29 years; condition unknown; residence Ward 9; born in Russia
- April, 1913.—1 male; tuberculosis; white; aged 29 ye or Poland; mother born in Russia or Poland. 1 female; alcoholism; white; aged 46 years; single; residence Ward 9; born in United States; birthplace of
 - mother unknown.
 - 1 male; organic diseases of the heart; white; aged 37 years; single; residence Ward 6; birthplace unknown; birthplace of mother unknown.
 - 1 male; suicide by cutting or piercing instruments; white; aged 50 years; married; residence Ward 9; born in Ireland; birthplace of mother unknown.
- May, 1913.—1 female; tuberculosis; white; aged 27 years; single; residence Ward 25; born in Canada; mother born in Canada.
 male; alcoholism; black; aged 43 years; widower; residence Ward 9; birthplace unknown; birthplace of
 - mother unknown. 1 male; alcoholism; white; aged 54 years; condition unknown; Boston resident; birthplace unknown; birth-
 - place of mother unknown.

 1 male; alcoholism; white; aged 55 years; condition unknown; residence unknown; birthplace unknown;
 - birthplace of mother unknown.

 1 male; organic diseases of the heart; white; aged 73 years; condition unknown; residence unknown; birthplace unknown; birthplace of mother unknown.
 - I male; suicide by poison; white; aged 55 years; condition unknown; residence unknown; birthplace unknown; birthplace of mother unknown.
 - 1 male; suicide by firearms; white; aged 40 years; condition unknown; residence Ward 9; birthplace unknown; birthplace of mother unknown.
 - 1 male; homicide by cutting or piercing instruments; white; aged 21 years; single; residence Ward 6; born in Italy; mother born in Italy.

DIVISION OF COMMUNICABLE DISEASES, June, 1913.

Medical Inspectors.

| New cases visited: | | | | | | | |
|-----------------------------|------|--------|------|----|----|---|-----|
| Diphtheria: | | | | | | | |
| a. Isolation | | | | | | | 93 |
| b. Diagnosis . | | | | | | | 5 |
| Scarlet fever: | | | | | | | |
| a. Isolation | | | | | ٠. | | 69 |
| b. Diagnosis . | | | | | | | 15 |
| c. Release | | | | | | | 50 |
| Measles: | | | | | | | |
| a. Isolation | ٠. | | | | | | 5 |
| b. Diagnosis . | | | | | | | 4 |
| varicena: | | | | | | | |
| a. Isolation | | | | | | | 7 |
| b. Diagnosis . | | | | | | | 5 |
| Ophthalmia neonatorum | | | | | | | 29 |
| Tuberculosis | | | | | | | 38 |
| Typhoid fever | | | | | | | 10 |
| Cerebro-spinal meningit | is | | | | | | 1 |
| Poliomyelitis | | | | | | | 1 |
| Mumps | | | | | | | .2 |
| Deaths investigated . | | | | | | | 14 |
| Vaccinations performed | | | | | | | 72 |
| Certificates of vaccination | on i | ssued | | | | | 0 |
| | Νι | ırses. | | | | | |
| New cases visited: | | | | | | | |
| Diphtheria | | | | | | | 176 |
| Scarlet fever | | | | | | | 106 |
| Measles | | | | | | | 535 |
| Varicella | | | | | | | 102 |
| Typhoid fever | | | | • | | | 10 |
| Cerebro-spinal meningit | | | | | | | 3 |
| Whooping cough . | ٠ | | | | | • | 92 |
| Trachoma | | | | | | | 2 |
| Ophthalmia neonatorum | | | | | | | 76 |
| Release cultures taken | for | diph | ther | ia | | | 166 |

| old cases visited | : | | | | | | | | | |
|-------------------|-----|--------|-------|------|------|------|---|---|----|-----|
| Diphtheria . | | | | | | | | | | 217 |
| Scarlet fever | | | | | | | | | ٠ | 371 |
| Measles . | | | | | | · . | | | | 503 |
| Varicella . | | | | | | | | • | ٠. | 64 |
| Typhoid fever | | | | | | | | | | 27 |
| Whooping cou | gh | ļ*• | | | | | | | | 57 |
| Ophthalmia n | | | | | | | | | | 268 |
| Cerebro-spinal | men | ningit | tis | | | | | : | | 2 |
| | | | | | | | | | | |
| | | I | Disin | fect | ions | • | | | | |
| Diphtheria . | | ٠. | | | . • | | | | | 175 |
| Scarlet fever | | | | | | | | | | 98 |
| Tuberculosis | | | | | | | | | | 223 |
| | | | | | | | | | | |
| | | Fore | cible | Re | mov | als. | | | | |
| Tuberculosis | | | | | 1 | | | | | 3 |
| Scarlet fever | | | | | | | | | | 1 |
| Diphtheria . | | | | | | | - | | | 1 |

| Wards. | Anterior Poliomyelitis. | Actinomycosis. | Asiatic Cholera. | Bubonic Plague. | Cerebro-spinal Meningitis. | Diphtheria. | Glanders. | Leprosy. | Malaria. | Malignant Pustule. | Measles. | Mumps. | Ophthalmia Neonatorum. |
|-------------------------------|----------------------------|----------------|------------------|-----------------|-------------------------------|-------------|-----------|----------|----------|-----------------------|----------|--------|---------------------------|
| 1 | | | | | | 4 | | | | | 33 | 1 | 3 |
| 2 | | | | | | 14 | | | | | 16 | 1 | 9 |
| 3 | | | | | | 3 | | | | | 26 | 3 | |
| 4 | | | | | | 2 | | | | | 26 | 2 | 3 |
| 5 | | | | | | 1 | | | | | 21 | 3 | |
| 6 | | | | | | 17 | | | | | 28 | 3 | 8 |
| 7 | | | | | | 4 | | | | | -10 | 6 | . 5 |
| 8 | | | | | 1 | 3 | | | | | 24 | 10 | 5 |
| 9 | | | | | | 8 | | | | | 6 | 2 | 6 |
| 10 | | | | | | 2 | | | | | 3 | | 2 |
| 11 | | | | | | 3 | | | | | 10 | 9 | |
| 12 | | | | | | 17 | | | 1 | | 14 | 10 | 11 |
| 13 | | | | | | 3 | | | | | 4 | 1 | 12 |
| 14 | | | | | 1 | 7 | | | | | 10 | 5 | 6 |
| 15 | | | | | | 4 | | | | | 11 | 9 | 2 |
| 16 | | | | | | 3 | | | | | 23 | 7 | 1 |
| 17 | | | | | | 7 | | | | | 2 | 7 | 2 |
| 18 | | | | | | 16 | | | | | . 2 | 3 | 4 |
| 19 | | | | | 1 | 15 | | | | | 12 | 2 | 3 |
| 20 | | | | | | 16 | | | | | 66 | 8 | 9 |
| 21 | | | | | | 4 | | | | | 14 | 4 | 4 |
| 22 | | ' 1 | | | | 10 | | | | | 10 | 2 | 5 |
| 23 | | | | | 1 | 5 | | | | | 62 | 2 | 3 |
| 24 | | | | | | 8 | | | | | 109 | 7 | 3 |
| 25 | | | | | | 3 | | | | | 11 | 14 | |
| 26 | | | | | | 4 | | | | | 31 | | 1 |
| Total | • | 1 | | | 4 | 183 | | | 1 | | 584 | 121 | 107 |
| Unknown | | | | | | | | | | | | | |
| Nonresidents | | | | | | 2 | | | | | 1 | | 8 |
| | | | | | | | | | | | | | |
| Grand total | | 1 | • • • • | | 4 | 185 | | | 1 | | 585 | 121 | 115 |
| Corresponding month last year | 1 | | | | 3 | 93 | | 1 | 7 | 1 | 605 | 21 | 97 |
| | | | | | | | | | | | | - | |

Included in the nonresidents were the following cases brought to Boston

COMMUNICABLE DISEASES.

Cases Reported.

June, 1913.

| Scarlet Fever. | Smallpox. | Tetanus, | Trachoma. | Trichinosis. | Tuberculosis (Pulmonary and Miliary). | Tuberculosis (Other Forms). | Typhoid Fever. | Typhus Fever. | Varicella. | Whooping Cough. | Yellow Fever. | Wards, |
|----------------|-----------|----------|-----------|--------------|---|--------------------------------|----------------|---------------|------------|-----------------|---------------|--------------------------------|
| 7 | | | | | 8 | 2 | 1 | Ī | 1 | 5 | 1 | |
| 6 | | | | | 19 | 2 | 1 | | 10 | 1 | | |
| 2 | | | | | 3 | | | | 1 | 2 | | |
| 1 | | | | | 5 | | | | | 2 | | 4 |
| 5 | | | | | 3 | . 2 | | | | 2 | | 5 |
| 3 | | | 1 | | 26 | 5 | | | 6 | 4 | | 6 |
| 1 | | | | | 13 | 1 | | | 1 | 3 | | 7 |
| 7 | | | 2 | | 23 | 2 | 1 | | 20 | 6 | | 8 |
| 2 | | | | | 20 | 3 | | | 8 | 6 | | 9 |
| | | | | | 8 | 2 | | | 1 | 2 | | 10 |
| | | | | | 10 | 1 | | | | | | 11 |
| 6 | | | | | 10 | 1 | 3 | | 3 | 4 | | 12 |
| 3 | | | | | 13 | 2 | 1 | | 1 | 6 | | |
| 5 | | | | | 14 | 2 | 1 | | 3 | 1 | | 14 |
| 3 | | | | | 9 | 1 | 1 | | 2 | 1 | | |
| 4 | | | | | 12 | | 1 | | 9 | 3 | | |
| 3 | | | | | 16 | 1 | • | | | 11 | | |
| | | | | | 11 | | | | 2 | 6 | | |
| 7 | | | 1 | | 13 | 1 | | | 6 | 2 | | 19 |
| 13 | | | | | 22 | | 1 | | 13 | 13 | | 20 |
| . 10 | | | | | 7 | 2 | 1 | | 6 | 3 | | 21 |
| 1 | | | | | 7 | 3 | | | 5 | | | 22 |
| 6 | | | | | 6 | | 1 | | 7 | | | 23 |
| 7 | | | | | 11 | 1 | 1 | | 2 | 6 | | 24 |
| 8 | | | | | 3 | • | 1 | | 1 | 1 | | 25 |
| 1 | | | | | 4 | | - | | | 1 | | 26 |
| | | | | | | | | | | | | |
| 111 | | . : | 4 | | 296 | 34 | 14 | | 108 | 91 | | Total |
| * * * * | | | | | | | | | | | | Unknown |
| 22 | | | 9 | | 16 | 11 | 1 | | | | | Nonresidents |
| 133 | | | 13 | : | 312 | 45 | 15 | | 108 | 91 | | Grand total |
| 60 | | | 4 | | 253 | 25 | 56 | | 86 | 46 | | Corresponding month last year. |

for treatment: Typhoid fever, 1; diphtheria, 2; scarlet fever, 22; measles, 1.

DIVISION OF CHILD HYGIENE.—JUNE, 1913.

| 1. A | ledical | Insi | pection | of | Schools. |
|------|----------------|------|---------|----|----------|
|------|----------------|------|---------|----|----------|

| 1. Medical Inspection of Schools. |
|---|
| Number inspections made 6,074 Number physical examinations made 1,744 Number visits made to homes |
| There were 850 pupils excluded from school during the |
| month on account of contagious diseases, as follows: |
| Diphtheria . . 2 Scarlet fever . 1 Acute or purulent conjunctivitis . |
| There were 3,033 cases of noncontagious disease found, subdivided as follows: |
| Diseases of oral and respiratory tract 491 Diseases of the ear 33 Diseases of the eye 202 Diseases of skin 332 Dental caries 323 Miscellaneous diseases 1,682 |
| 2. Physical Examination of Licensed Minors. |
| There were 661 girls and 586 boys between the ages of 14 and 16 years examined during the month. Four hundred and thirty-four were found without defects and 813 with defects, as follows: |
| Defective hearing 2 Cardiac disease 7 Defective eyesight 99 Orthopedic defects 12 Defective nasal breathing 11 Skin 1 Hypertrophied tonsils 57 Malnutrition 1 Defective teeth 760 Miscellaneous 61 Pulmonary disease 2 |
| 3. Pre=Natal and Post=Natal Work. |
| $Pre	ext{-}Natal.$ |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| Defects noted as follows: Varicose veins |
| Mothers attended as follows: |
| Family physician 6 Hospital 2 |
| Post-Natal. |
| Number cases 1,163 Number visits 3,338 |
| Number babies not found, on account of wrong address, removal, etc., 106. |
| Breast-fed 963 Breast and bottle-fed 53 Bottle-fed |
| Defective conditions noted as follows: |
| Improper feeding |

(148)

BACTERIOLOGICAL LABORATORY.

| DIPHTHERIA: | GONORRHEA: |
|--|---|
| *K-L vir.; cerebro-spinal fluid; organis | oms, malaria, G-U. T. B., paratyphoids. |
| INSPECTION OF MI | |
| Examination as to St | |
| " milk for bacteriological ex " ice cream, bacteriological " "vinegar " butter and cheese | 440 627 18. 22 22 23 24 24 24 24 24 24 |
| Total samples | 1,686 |
| Satisfactory * on first inspection. Satisfactory on later inspection. Unsatisfactory on first inspection. Unsatisfactory on later inspection. Total number of inspections. Dairies having milk rooms. Dairies without milk rooms. Number of cattle inspected. Number of dairies prohibited shipping milk toonditions of premises. * "Satisfactory" means having a score of card. | 55 32 87 508 294 214 13,104 10 Boston, because of insanitary |
| INSPECTED AT BRI | |
| Cattle inspected 311 Calves inspected 598 Sheep inspected 4,047 Swine inspected 4,047 | Cattle condemned (1 whole) 350 lbs. " |
| | S.— ARTICLES CONDEMNED. |
| Meats. Veal (immature) 35 lbs. Mutton (tainted) 45 lbs. Beef (tainted) 25 lbs. Pork (tainted) — lbs. Poultry (tainted) 221 lbs. | Miscellaneous. Fruit |
| SANITARY INSPE | ECTION DIVISION. |
| New reports. Reinspections. New tenement house reports. Nuisances reported. Legal notices. Court cases. Fines Tenements vacated. Milk applications approved. Stable permits granted. Stable permits granted. Stable permits refused. Dump permits granted. | 9,904 337 6,096 413 \$590 4 339 2 2 1 1 1 1 |
| | ANTINE. |
| Vessels inspected at quarantine Total immigrants arriving in Boston | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |

MONTHLY METEOROLOGICAL SUMMARY. Taken at Weather Bureau, Boston, June, 1913.

| | | MPERAT DEGREE | 8 | midity. | itation. | -ung | WIND. | | | | | |
|--------|----------|------------------|-------|-------------------|---------------------|-----------------------------|--|----------------------------------|--------------------------|--|--|--|
| Day. | Maximum. | Minimum. | Mean. | Relative Humidity | Daily Precipitation | Actual Hours Sun- shine. | Average Hourly Velocity. (Miles.) | Maximum Velocity. (Miles.) | Prevailing Direction. | | | |
| 1 | 80 | 57 | 68 | 60 | 0 | 15.0 | 12.0 | 25 | s. w. | | | |
| 2 | 77 | 63 | 70 | 50 | Т | 11.8 | 13.4 | 27 | s. w. | | | |
| 3 | . 78 | 57 | 68 | 60 | ,0 | 13.6 | 11.4 | 25 | s. w. | | | |
| 4 | 73 | 56 | 64 | 75 | 0 | 12.6 | 8.8 | 23 | E. | | | |
| 5 | 71 | 56 | 64 | . 77 | 0 | 13.4 | 8.0 | 16 | E. | | | |
| 6 | 78 | 55 | 66 | 74 | 0 | 11.8 | 12.7 | 24 | s. w. | | | |
| 7 | 86 | 57 | 72 | 76 | .34 | 8.5 | 13.0 | 40 | ·s. w. | | | |
| 8 | 61 | 50 | 56 | 61 | 0 | 12.6 | 8.9 | 16 | N. W. | | | |
| 9 | 61 | ` 48 | 54 | 72 | Т | 11.0 | 8.4 | 14 | N. W. | | | |
| 10 | 72 | 47 | 60 | 72 | 0 | 15.2 | 9.0 | 16 | N. W. | | | |
| 11 | 82 | 55 | 68 | 44 | 0 | 15.2 | 13.0 | 23 | w. | | | |
| 12 | 74 | 53 | 64 | 66 | 0 | 15.2 | 11.5 | 28 | E. | | | |
| 13 | 77 | 51 | 64 | 75 | 0 | 15.2 | 9.4 | 19 | s. w. | | | |
| 14 | 85 | 60 | 72 | 54 | 0 | 13.3 | 10.5 | 22 | N. W. | | | |
| 15 | 75 | 59 | 67 | 67 | 0 | 15.2 | 9.5 | 18 | E. | | | |
| 16 | 91 | 61 | 76 | 58 | 0 | 12.6 | 12.8 | 20 | w. | | | |
| 17 | 83 | 62 | 72 | 56 | 0 | 13.0 | 10.8 | 22 | N. W. | | | |
| 18 | 70 | 56 | 63 | 49 | 0 | 13.6 | 10.1 | 17 | N.W. | | | |
| 19 | 72 | 57 | 64 | 60 | .08 | 10.6 | 9.5 | 22 | W., S. W. | | | |
| 20 | 68 | 57 | 62 | 89 | .04 | 1.2 | 8.1 | 18 | S. | | | |
| 21 | 72 | 58. | 65 | 83 | .07 | 4.8 | 6.2 | 14 | E. | | | |
| 22 | 82 | 62 | 72 | 70 | 0 | 14.0 | 9.2 | 17 | N.W. | | | |
| 23 | 82 | 64 | 73 | 62 | 0 | 15.2 | 7.2 | 18 | E. | | | |
| 24 | 86 | 64 | 75 | 57 | 0 | 15.2 | 9.8 | 17 | s. w. | | | |
| 25 | 70 | 54 | 62 | 86 | .11 | 2.6 | 10.8 | 20 | N. E., E. | | | |
| 26 | 66 | 56 | 61 | 94 | 0 | 0 | 6.5 | 15 | E., S. E. | | | |
| 27 | 90 | 64 | 77 | 78 | 0 | 12.4 | 11.5 | 19 | w. | | | |
| 28 | 87 | 67 | 77 | 50 | Т | 11.5 | 10.7 | 20 | N.W. | | | |
| 29 | 84 | 63 | 74 | 50 | . 0 | 15.2 | 7.3 | 15 | N.W.,S.W. | | | |
| 30 | 87 | 61 | 74 | 60 | 0 | 11.5 | 12.9 | 26 | s. w. | | | |
| Totals | | | | | 0.64 | 353.0 | | | | | | |
| Means | 77.3 | 57.7 | 67.5 | 66.2 | 0.02 | 78% | 10.1 | 7th | s. w. | | | |

Latitude 42 degrees 21 minutes.

Longitude 71 degrees 4 minutes.

BOSTON WARD MAP.





MONTHLY BULLETIN

OF THE

Rec'd

HEALTH DEPARTMENT P. L.

OF THE

CITY OF BOSTON



| | | | | | | PAGE |
|---------------------------|--|----|--|--|--|-------|
| Vital Statistics for July | | .1 | | | | . 155 |
| Monthly Reports | | | | | | . 166 |

CITY OF BOSTON
PRINTING DEPARTMENT
1913

ORGANIZATION OF THE HEALTH DEPARTMENT

FRANCIS X. MAHONEY, M. D., Chairman. P. H. MULLOWNEY, M. D. V.

F. H. SLACK, M. D., Secretary.



MONTHLY BULLETIN

OF THE

HEALTH DEPARTMENT OF THE CITY OF BOSTON.

All communications relating to this publication should be addressed to BULLETIN OF THE HEALTH DEPARTMENT, 100 Summer St., Boston.

Vol. 2.

BOSTON, JULY, 1913.

No. 7.

SUMMARY OF VITAL STATISTICS FOR THE MONTH OF JULY, 1913.

Boston had 873 deaths in July, 1913, compared with 894 for July of last year; and a death rate of 13.98 against 14.62 for July, 1912. Deaths of nonresidents numbered 131 against 125 a year ago. Deducting deaths of nonresidents the corrected death rate for July, 1913, was 11.88 against 12.57 for July, 1912.

Of deaths from reportable diseases the principal decrease was tuberculosis (all forms), 9; and the principal increases were diphtheria, 8, and measles, 3.

Other important differences were as follows:

| July | y, 1 913, d | ecrea | ses | com | pare | d wi | th Ju | ıly, 1 | 912: | | | | |
|------|-------------------------------------|----------------|----------|------|-------|-------|--------|--------|------|-----|--------|--|----|
| | "Other | disea | ses' | , . | | | | | | | | | 26 |
| | Diarrhea | | | | | | | | | | | | |
| | Congeni | | | | | | | | | | | | |
| | Cancer | | | | 1. | | | | | | 2 | | 7 |
| | Pneumo | | | | | | | | | | | | |
| Jul | y, 1913, in Violent o Organic | death heart | s dis | ease | s, Bı | right | 's dis | sease | and | nep | hritis | | 14 |
| | Hernia, | | | | | | | | | | | | |
| | Apoplex | У | | • | | | | | | | | | 6 |

Ward 11 had the lowest death rate, 4.98, and Ward 7 the highest, 18.70. It should be noted that a large part of the population of Ward 11 is out of the city during the summer months.

There were 39 less deaths under one year than in July, 1912, 42 less under 5 years, and 3 less over 60.

Total deaths under one year numbered 163, which is 77 less than the average number for July for the preceding five years.

Of these 163 deaths, 66 were due to premature birth, congenital debility, malformations and other diseases peculiar to early infancy; 53 to diarrhea and enteritis, 16 to reportable diseases, 12 to pneumonia and broncho-pneumonia, and 16 to other causes. Of these deaths of infants, Ward 6 had the largest number, 15.

One hundred and fourteen were over two weeks old and 82 of these were bottle fed.

VITAL STATISTICS.

GENERAL STATISTICS. Population, Ward Area, Persons to Acre, and Rates.

| | | 18. | la- | | STILLBI | RTHS E | KCLUDED. |
|----------|---------------------|--------------------------|---|--|--|--|---|
| | Land Area in Acres. | Population, 1910 Census. | Persons to Acre of Land (Using Census Population.) | Population, Estimated, July 1, 1913.† | Death Rates, 1912. (Population, Estimated.)† | Birth Rates, 1911. (Population, Estimated.)† | Death Rates, 1912, of Children Under One Year, Per 1,000 Births, 1911. |
| * Boston | 27,674 | 686,092 | 24.8 | 735,399 | 16.17 | 25.99 | 119.35 |
| Wards 1 | 1,188 | 29,676 | 24.9 | 32,439 | 13.05 | 24.90 | 104.58 |
| 2 | 357 | 28,812 | 80.7 | 30,676 | 17.11 | 33.37 | 120.81 |
| 3 | 332 | 15,339 | 46.2 | 15,667 | 15.29 | 26.84 | 106.02 |
| 4 | ` 301 | 13,294 | 44.1 | 13,808 | 18.02 | 25.50 | 148.26 |
| 5 | 207 | 12,811 | 61.9 | 12,914 | 16.69 | 24.28 | 118.59 |
| 6 | 293 | 35,758 | 122.0 | 39,492 | 16.18 | 48.81 | 100.33 |
| 7 | 394 | 14,913 | 37.9 | 14,483 | 20.05 | 26.57 | 94.39 |
| 8 | 171 | 32,430 | 189.6 | 33,479 | 12.07 | 33.21 | 70.64 |
| 9 | 186 | 26,427 | 141.5 | 29,214 | 15.13 | 27.40 | 106.24 |
| 10 | 394 | 25,320 | 64.3 | 26,277 | 11.86 | 10.51 | 114.81 |
| 11 | 663 | 27,444 | 41.4 | 30,738 | 9.69 | 14.22 | 63.73 |
| 12 | 235 | 24,294 | 103.4 | 25,948 | 14.98 | 14.57 | 181.82 |
| 13 | _ 611 | 21,561 | 35.3 | 21,501 | 17.24 | 31.11 | 117.91 |
| 14 | 405 | 23,584 | 58.2 | 24,527 | 14.44 | 24.14 | 115.92 |
| 15 | 277 | 21,216 | 76.6 | 21,803 | 14.80 | 20.25 | 119.82 |
| 16 | 564 | 25,633 | 45.6 | 28,033 | 12.75 | 24.23 | 110.42 |
| 17 | 460 | 26,426 | 57.4 | 27,793 | 15.49 | 25.65 | 117.22 |
| 18 | 220 | 22,735 | 103.3 | 23,133 | 17.08 | 25.08 | 99.30 |
| 19 | 760 | 31,714 | 41.7 | 33,332 | 13.77 | 22.77 | 111.41 |
| 20 | 1,716 | 55,720 | 32.5 | 64,723 | 12.97 | 20.33 | ‡158.90 |
| 21 | 640 | 30,511 | 20.5 | 33,085 | 13.54 | 17.53 | 85.14 |
| 22 | 760 | 29,975 | 38.1 | 31,403 | 12.50 | 20.55 | 100.48 |
| 23 | 7,617 . | 30,668 | 4.0 | 33,423 | 12.13 | 19.93 | 94.94 |
| 24 | 3,252 | 37,749 | 11.6 | 41,695 | 12.63 | 23.73 | 103.11 |
| 25 | 2,740 | 26,575 | 9.7 | 29,661 | 11.95 | 24.73 | 96.21 |
| 26 | 2,869 | 15,507 | 5.4 | 16,152 | 12.29 | 29.59 | 107.30 |

^{*}Hyde Park was annexed to Boston January 1, 1912, and became Ward 26. Under "Boston," in the above table, Hyde Park statistics are included.

[†] Population estimated by arithmetical method, using the censuses of 1905 and 1910. ‡ An infant asylum is located in this ward.

VITAL STATISTICS.

July. General Summary.

| | | | 1913, | 1912. |
|--|------|--|---------|---------|
| | | | 873 | 894 |
| | | | 735,399 | 720,031 |
| | | | 13.98 | 14.62 |
| | | | 131 | 125 |
| | | | 11.88 | 12.57 |
| | | | | |

^{*} Population estimated by arithmetical method, using the censuses of 1905 and 1910.

† Nonresidents not included.

July, 1913. Statement of Deaths.

| Total numbe | r (et | J, illhir | othe | 0.W. | 1 | Nativity | | | |
|----------------|-------|--------------|------|------|-----|-------------------|-----|------|-----|
| | | | | | | United States . | | | 535 |
| cluded) | • | ٠ | ٠ | ٠ | 873 | Ireland | | | 144 |
| | ~ | | | | | England and Wales | | | 21 |
| | Sı | | | | | Scotland | | | 12 |
| Males . | | | | | 488 | Germany | | | 8 |
| Females . | | | | | 385 | Canada | | | 53 |
| | | | | | | Italy | | | 38 |
| (| COND | OITIO | N. | | | Russia and Poland | | | 26 |
| Single . | | | | | 440 | Sweden and Norway | | | 7 |
| | | | | | 275 | France | | | 2 |
| | | | | | | Other countries . | | | 16 |
| Widowed | | | ٠ | | 148 | Unknown | | | 11 |
| Divorced | ٠ | ٠ | | ٠ | 6 | NATIVITY OF M | OTE | ERS. | |
| Unknown | ٠ | | | ٠ | 4 | United States . | | | 227 |
| | | | | | | Ireland | | | 276 |
| | Co | | | | | England and Wales | | | 23 |
| White . | | • | • | | 846 | Scotland | | | 16 |
| Black (negro | or m | ixed | l) . | | 26 | Germany | | | 19 |
| Chinese . | | | | | 1. | Canada | | | 72 |
| Deaths of ch | ildre | n: | | | | Italy | | | 75 |
| Under one | vear | | | | 163 | Russia and Poland | | | 66 |
| Under two | - | | | | 200 | Sweden and Norway | | | 11 |
| | | | | | | France | | | 2 |
| Under five | | | | | | Other countries . | | | 24 |
| Stillbirths di | uring | ; the | mon | th, | 61 | Unknown | | • | 62 |

| List mber. | | Тот | ALS. | Year. | | | | | Years. | rs. | Years. | Years. |
|--------------------------------|---|-------|-------|------------|----------|----------|----------|-----------|------------|---------------|------------|------------|
| Abridged List Class Number. | CAUSES OF DEATH. | 1913. | 1912. | Under 1 Y | I Year. | 2 Years. | 3 Years. | 4 Years. | Under 5 Y | 5 to 9 Years. | 10 to 14 Y | 15 to 19 Y |
| | Total, all causes $\left\{ $ | 873 | 894 | 163 202 | 37 39 | 11 16 | 8 11 | 10 | 229 271 | 23 17 | 12 13 | 21 24 |
| 1 | Typhoid fever | 3 | 3 | | | | | | | | | |
| 3 | Malarial fever | | | | | | | | | | | |
| 4 | Smallpox | | | | | | | | | | | |
| 5 | Measles | 8 | 5 | 3 | 4 | | | 1 | 8 | | | |
| 6 | Scarlet fever | 1 | | , | | . 1 | | 0 0 0.0 6 | 1 | | | |
| 7 | Whooping cough | 7 | - 7 | 5 | | 2 | | | 7 | | | |
| 8 | Diphtheria and croup | 13 | , 5, | 2 | 3 | 1 | 2 | 2 | 10 | 3 | | |
| 9 | Influenza | | , . | | | | | | | | | |
| 12 | Other epidemic diseases | 6 | 4 | 2 | | | | | ·2 | | | |
| 13 | Tuberculosis of the lungs | 81 | 93 | 1 | 4 | | 1 | | 6 | | | 8 |
| 14 | Tuberculous meningitis | 9 | 10 | 3 | . 1 | 2 | 1 | | 7 | 1 | | |
| 15 | Other forms of tuberculosis | 7 | 3 | | 3 | | 1 | | 4 | | | |
| 16 | Cancer, malignant tumor | 53 | 60 | | | | 1 | | 1 | | | |
| 17 | Simple meningitis (except cerebro- | - 5 | 5 | | 1 | 1 | | | 2 | | 1 | |
| 17a | spinal meningitis). Cerebro-spinal meningitis | 5 | 6 | -2 | | | | | 2 | 1 | | |
| 18 | Apoplexy and softening of the brain, | 42 | 36 | | | | | | | | | |
| 19 | Organic heart diseases | 109 | 99 | | | | | | | 3 | | 3 |
| 20 | Acute bronchitis | | 1 | | | | | | | | | |
| 21 | Chronic bronchitis | 4 | 3 | | | | | | | | | |
| 22 | Pneumonia (except broncho-pneumonia). | 36 | 41 | 4 | 2 | | | 2 | 8 | . 1 | 1 | |
| 22a | Broncho-pneumonia | 26 | 22 | 8 | 5 | 1 | | | 14 | 1 | | |
| 23 | Other respiratory diseases | 6 | 9 | | • 1 | | 1 | | 2 | | | |
| 24 | Diseases of the stomach (cancer excepted). | 7 | 4 | 1 | 1 | | | | 2 | | | |
| 25 | Diarrhea and enteritis (under two | 61 | 85 | 53 | 8 | | | | 61 | | | |
| 26 | years). Appendicitis and typhlitis | 9 | 11 | | | , . | | | | 1 | 1 | |
| 27 | Hernia, intestinal obstruction | 11 | 3 | 3 | | | | | 3 | | | |
| 28 | Cirrhosis of liver | 6 | 3 | | | | | | | | | |
| 29 | Bright's disease and nephritis | 56 | . 52 | | | | | 1 | 1 | | 1 | 3 |
| 30 | Diseases of women (not cancer) | 4 | 8 | | | | | | | | | |
| 31 | Puerperal septicemia | 4 | 5 | | | | | | | | | |
| 32 | Other puerperal diseases | 6 | 6 | | | | | | | | | 1 |
| 33 | Congenital debility and malformations, | 54 | 66 | 53 | 1 | | | | 54 | | | |
| 34 | Old age | 1 | 4 | | | | | | | | | |
| 35 | Violent deaths | 95 | 76 | 6 | 2 | 2 | 1 | 3 | 14 | 6 | 4 | 2 |
| 36 | Suicide | 13 | 9 | | | | | | | | | 1 |
| 37 | Other diseases | 124 | 150 | 17 | 1 | 1 | | 1 | 20 | 6 | 4 | 2 |
| 38 | Ill-defined causes | 1 | | | | | | | | | | |

July, 1913.

| ears. | Years. | Years. | Years. | Years. | Years. | ears. | Years. | Years. | ears. | ears. | ears. | ears. | ears. | pu | 2 | Sex. | jist mber. |
|-----------------|-------------|------------|------------|------------|------------|-----------------|------------|------------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------------|------------|------------|--------------------------------|
| 20 to 24 Years. | 25 to 29 Ye | 30 to 34 Y | 35 to 39 Y | 40 to 44 Y | 45 to 49 Y | 50 to 54 Years. | 55 to 59 Y | 60 to 64 Y | 65 to 69 Years. | 70 to 74 Years. | 75 to 79 Years. | 80 to 84 Years. | 85 to 89 Years. | 90 Years and over. | Males. | Females. | Abridged List Class Number. |
| 38 33 | 33 29 | 33 47 | 46 43 | 56 46 | 53 51 | 62 56 | 54 48 | 51 52 | 64 43 | 37 53 | 32 31 | 18 17 | 6 18 | 5 2 | 488 474 | 385 420 | |
| .1 | | 1 | | | | | | | | | | | | | 3 | | 1 |
| | | | | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | 4 |
| | | | | | | | | | | | | | | | 6 | 2 | 5 |
| | | | | | | | | | | | | | | | | 1 | 6 |
| | | | | | | | | | | | | | | | 5 | 2 | 7 |
| | | | | | | | | | | | | | | | 7 | 6 | 8 |
| | | | | | | | | | | | | | | | | | 9 |
| | | 1 | | 1 | 1 | | | | | | | 1 | | | 3 | 3 | 12 |
| 10 | 4 | 8 | 6 | 6 | 7 | 10 | 9 | 3 | 2 | | 2 | | | | 49 | 32 | 13 |
| | | | | | 1 | | | | | | | | | | 6 | 3 | 14 |
| 1 | . 2 | | | | | | | | | | | | | | 3 | 4 | : 15 |
| . 1 | | | 3 | 3 | 7 | 9 | 5 | 6 | 11 | 3 | 1 | 3 | | | 21 | 32 | 16 |
| | | | | | 1 | | | | | 1 | | | | | 2 | 3 | 17 |
| | | | 1 | 1 | | | | | | | | | | | 4 | 1 | 17a |
| | 1 | | | 2 | 3 | 4 | 8 | 4 | 7 | 3 | 4 | 5 | | 1 | 21 | 21 | 18 |
| 4 | 5 | 2 | 6 | 6 | 9 | 11 | 11 | 11 | 12 | 9 | 9 | 4 | 3 | 1 | 60 | 49 | 19 |
| | | | | | | | | | | | | | | | | | 20 |
| | | | | | | | | | 3 | | | | | 1 | 3 | 1 | 21 |
| | 2 | 2 | 1 | 3 | 2 | 1 | 3 | 3 | 2 | 4 | 2 | 1 | | | 16 | 20 | 22 |
| | | | | 3 | 1 | 2 | 1 | 3 | | 1 | | | | | 18 | 8 | 22a |
| | | | | | | 1 | 1 | | 1 | | 1 | | | | 2 | 4 | 23 |
| | | | | 1 | | | 2 | | | 2 | | | | | 5 | 2 | 24 |
| | | | | | | | | | | | | | | | 33 | 28 | . 25 |
| | | .1 | | 3 | | 1 | | 1 | 1 | | | | | | 5 | 4 | 26 |
| | | | | 1 | 3 | 1 | 1 | | 1 | 1 | | | | | 6 | 5 | 27 |
| | | | 1 | 1 | | | | 1 | 3 | | | | | | 3 | 3 | 28 |
| 2 | 2 | 1 | 4 | 2 | 2 | 4 | 3 | 9 | 9 | 5 | 5 | 1 | 1 | 1 | 26 | 30 | 29 |
| | | | 2 | 1 | | | | | | | | | 1 | | | 4 | 30 |
| 1 | 2 | 1 | | | | | | | | | | | | | | 4 | - 31 |
| 1 | 1 | 3 | | | | | | | | | | | | | | 6 | 32 |
| | | | | | | | | | | | | | | | 31 | 23 | 33 |
| | | | | | | | | | | | | | | 1 | | 1 | 34 |
| 10 | 6 | 8 | 10 | 9 | 7 | 4 | 4 | 4 | 1 | 1 | 2 | 2 | 1 | | 69 | 26 | 35 |
| 1 | | 2 | 4 | 2 | 2 | 1 | | | | | | | | | 10 | 3 | 36 |
| 6 | 8 | 3 | 8 | 11 | 7 | 13 | 6 | 5 | 11 | 7 | 6 | 1 | | | 70 | 54 | 37 |
| | | | | | | | | 1 | | | | | | | 1 | | 38 |
| | | | | | 1 | 1 | 1 | 1 | | 1 | | | | , | | | |

| | 11y, 1913. | | | | | | | | | | 11101 | tant | <i>y D y</i> |
|--------------------------------|--|---------|-------|-------|------|-------|-------|-------|-------|-------|--------------|--------------|--------------|
| Abridged List Class Number. | CAUSES OF DEATH. | Boston. | | | | | | Resi | 1 | | | | |
| Abı | | Bo | 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | 11. |
| | All causes | 873 | 26 | 31 | 12 | 18 | 20 | 51 | 23 | 33 | 20 | 19 | 13 |
| | Rates per 1,000 popula- {1913 tion | 13.98 | 9.44 | 11.90 | 9.02 | 15.35 | 18.23 | 15.21 | 18.70 | 11.61 | 8.06 9.97 | 8.51 7.70 | 4.98 8.32 |
| 1 | Typhoid fever | 3 | 10.44 | 19.50 | | | 10.04 | | | | 9.97 | | |
| 3 | Malarial fever | | | | | | | | | | | | |
| 4 | Smallpox | | | | | | | | | | | | |
| 5 | Measles | 8 | 1 | ' 1 | | 1 | | | 1 | | | | |
| 6 | Scarlet fever | 1 | - 1 | | | | | | | | | | |
| 7 | Whooping cough | . 7 | | | | | | | | 1 | | | |
| 8 | Diphtheria and croup | 13 | | 2 | 1 | | 1 | 3 | | | | | |
| 9 | Influenza | | | | | | | | | | | | |
| 12 | Other epidemic diseases | 6 | | | | | | | | | 1 | | |
| 13 | Tuberculosis of the lungs | 81 | 3 | 2 | | 4 | 2 | 8 | | 4 | 5 | 4 | 2 |
| 14 | Tuberculous meningitis | 9 | | | 1 | | 1 | | | 1 | | | , |
| 15 | Other forms of tuberculosis | 7 | | | | | | .1 | | | | , | |
| 16 | Cancer, malignant tumor | | 1 | 4 | | | | | | . 1 | 1 | 2 | 1 |
| 17 | Simple meningitis (except cerebro-spinal meningitis). | 5 | | | | | | | | | | | |
| 17a | Cerebro-spinal meningitis | .5 | | | | | | | | 1 | 1 | | |
| 18 19 | Apoplexy and softening of the brain. Organic heart diseases | 109 | 5 | 1 | 4 | 4 | 3 | 3 | 3 | 1 4 | 1 | 1 4 | 2 |
| 20 | Acute bronchitis | | | | - | 1 | | | | 1 | 1 | 7 | 2 |
| 21 | Chronic bronchitis | 4 | | | | | | | 1 | | | | |
| 22 | Pneumonia (except broncho- | | 1 | 2 | | 4 | | | 2 | 1 | | 1 | |
| 2 2a | pneumonia). Broncho-pneumonia | 26 | 1 | 2 | | | | 5 | | 2 | 1 | | |
| 23 | Other respiratory diseases | 6 | | | | | | | | | | | |
| 24 | Diseases of the stomach (cancer | 7 | | | | | | | | | | | |
| 25 | excepted). Diarrhea and enteritis (under two years). | 61 | 2 | 2 | | 1 | | 7 | 2 | 2 | 1 | 1 | 2 |
| 26 | Appendicitis and typhlitis | 9 | | | | | 1 | | | 1 | 1 | | |
| 27 | Hernia, intestinal obstruction, | 11 | 1 | 1 | | | | | 2 | | | | |
| 28 | Cirrhosis of liver | 6 | | | | | | 1 | | | | | 1 |
| 29 | Bright's disease and nephritis | 56 | 2 | 4 | 2 | | | 4 | 1 | | 1 | 2 | |
| 30 | Diseases of women (not cancer), | | 1 | | | | | | | | | 1 | |
| 31 | Puerperal septicemia | 4 | | | | | 1 | 1 | | | | | 1 |
| 32 | Other puerperal diseases | 6 | | 1 | | | | 2 | 1 | | | | |
| 33 34 | Congenital debility and malformations. Old age | 54 | 1 | 1 | 1 | 1 | 1 | 8 | | 4 | 1 | 1 | 1 |
| 35 | Violent deaths | 95 | 1 | 3 | 2 | 2 | 5 | 4 | 4 | 5 | 2 | 1 | |
| 36 | Suicide | 13 | 1 | 1 | | | | | 2 | 2 | | | 1 |
| 37 | Other diseases | 124 | 4 | 4 | 1 | 1 | 3 | 1 | 5 | 2 | 4 | 1 | 2 |
| 38 | Ill defined causes | 1 | | | | | | | | | | | |
| | Total deaths under one year | 163 | 4 | 7 | 1 | 3 | 2 | 15 | 3 | 9 | 4 | 1 | 3 |
| | | | | | | | | | | | | | |

| | | | | | | WARD | RESI | DENCE | | | 479.00 | | | | Ward | dents. | vn. | d List |
|----------------|----------------|---------------|----------------|---------------|----------------|----------------|----------------|-------|---------------|----------------|----------------|--------------|----------------|----------------|--------------------------|--------------|----------|-------------------------------|
| 12. | 13. | 14. | 15. | 16. | 17. | 18. | 19. | 20. | 21. | 22. | 23. | 24. | 25. | 26. | Boston, Ward Unknown. | Nonresidents | Unknown. | Abridged List Class Number |
| 25 | 31 | 18 | 23 | 33 | 35 | _ 29 | 33 | 60 | 26 | 29 | 38 | . 38 | 31 | 18 | 1 | 131 | 8 | |
| 11.34 12.96 | 16.98 16.41 | 8.64 11.18 | 12.42 16.88 | 13.86 9.93 | 14.83 14.20 | 14.76 17.40 | 11.66 12.19 | 10.92 | 9.25 11.67 | 10.87 10.65 | 13.39 10.12 | 10.73 9.02 | 12.31 11.49 | 13.12 10.33 | | | | |
| | | | | | | | | 1 | | | | 1 | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | | 4 |
| | | | | | | | | 2 | | | | | | | | 2 | | 5 |
| | | | | | | | | | | | | | | | | | | 6 |
| 2 | 1 | | | | | 1 | | 1 | | 1 | 1 | | | | | 1 2 | | 8 |
| | | | | | | 1 | | 1 | | | 1 | | | | | | | 9 |
| 1 | | | | | 1 | | | | | 1 | | | | | | 2 | | 12 |
| | 3 | | 2 | 3 | 4 | 3 | 4 | 5 | | 1 | 2 | 7 | 1 | 3 | | 8 | 1 | 13 |
| | | 1 | | 1 | | | | | | | | | 1 | | · | 3 | | 14 |
| | | | | 1 | | 1 | | 1 | | | | 1 | | | | 2 | | 15 |
| 1 | 1 | 1 | 3 | 2 | 1 | 2 | 2 | 4 | 2 | 2 | 1 | 5 | 3 | 2 | | 11 | | 16 |
| | | | | | 1 | | 1 | | 1 | | 1 | | | | | 1 | | 17 |
| | | | | | | 1 | 1 | | | l 1 | | | | | | 1 | | 17 |
| 3 | | 2 | | 3 | 1 | 1 | | 3 | 2 | 2 | 5 | 5 | 2 | 3 | | 3 | | 18 |
| 4 | 4 | 2 | 1 | 2 | 5 | 3 | 7 | 7 | 5 | 5 | 5 | 6 | 5 | 4 | | 10 | | 19 |
| 1 | 1 | 1 | | | | | | | | | | | | 1 | | | | 20 |
| | 1 | 1 | 1 | 3 | | 1 | 2 | 3 | 2 | 5 | | | 2 | | | 4 | | 22 |
| | | 1 | | 1 | 1 | 2 | | 5 | | | | | | 2 | | 2 | 1 | 22 |
| | 1 | 1 | 1 | | | | | 1 | | | | | | | | 2 | | 23 |
| 1 | | | | | | 1 | 1 | 1 | | 1 | | | | | ļ | 2 | | 24 |
| 1 | 7 | 1 | 3 | 1 | 2 | | 2 | 1 | | | 1 | 3 | 3 | | 1 | 13 | 2 | 25 |
| | | | 1 | | 2 | 1 | | | | | | | | | | 2 | | 26 |
| | | | | 1 | | 1 | 1 | | | | 1 | | 1 | | | 2 | | 27 |
| | | 1 | | | 1 | | | | | | 1 | | 1 | | | | | 28 |
| 3 | 3 | 2 | 2 | 3 | 1 | 1 | 2 | 3 | | 3 | 7 | | 2 | 1 | | 6 | 1 | 29 |
| | | 1 | | | | | | | 1 | | | | | | | . 2 | | . 30 |
| | | | | | | | | | 1 | 1 | | | | | | . 1 | | |
| 3 | 1 | 2 | 1 | 1 | 2 | 3 | 3 | 2 | 1 | 1 | 4 | | 1 | 1 | | | | |
| | | | | | | | | | | | | | | | | | | |
| 1 | 6 | | . 1 | 3 | 8 | 2 | 3 | 5 | 5 | 4 | 3 | 2 | 4 | | | | 2 | 35 |
| | . 1 | | | | | 1 | | | | | | | | | | 3 | 1 | 36 |
| 4 | 1 | 2 | 7 | 8 | 5 | 3 | 4 | 14 | 7 | 2 | 6 | 8 | 5 | 1 | | . 19 | | . 37 |
| | - | | | | | | | | | | | | | | | . 1 | | - |
| 6 | 9 | 5 | 6 | 6 | 4 | 6 | 7 | 9 | 4 | 1 | 5 | 3 | 7 | 4 | 1 | | 3 | |

there were 2 deaths from diphtheria among cases brought to Boston for treatment.

VITAL STATISTICS. July, 1913, Infant Mortality.

| Detailed List Class Number. | CAUSES OF DEATH. | Tot Un: | LY FALS, DER EAR. | r 1 Day. | Days. | Days. | Days to I Week. | Weeks. | Weeks. | Weeks to I Month. | Months. | Months. | Months. | Months. | 12 Months. | AG 2 W AND C | OVER. | Nonresidents. |
|-----------------------------|--------------------------------|------------|----------------------------|----------|--------|--------|-----------------|--------|--------|-------------------|---------|---------|---------|---------|------------|--------------|--------|---------------|
| Detail Nu | | 1912. | 1911. | Under 1 | 1 to 2 | 2 to 3 | 3 Day | 1 to 2 | 2 to 3 | 3 We | 1 to 2 | 2 to 3 | 3 to 6 | 6 to 9 | 9 to 1 | Breast | Bottle | Nonre |
| | Total | 163 | 202 | 23 | 4 | 7 | 8 | 7 | 6 | 6 | 14 | 11 | 28 | 29 | 20 | 32 | 82 | 25 |
| | Male | 97 | 116 | 14 | 3 | 4 | 4 | 3 | 4 | 3 | 9 | 6 | 17 | 17 | 13 | 20 | 49 | |
| | Female | 66 | 86 | 9 | 1 | . 3 | 4 | 4 | 2 | 3 | 5 | 5 | 11 | 12 | 7 | 12 | 33 | |
| | White | 159 | 197 | 9 | 1 | 6 | 8 | 7 | 6 | 6 | 14 | 11 | 27 | 27 | 20 | 31 | 80 | |
| | Colored | 4 | 5 | | | 1 | | | | | | | 1 | 2 | | 1 | 2 | |
| 1 | Typhoid fever | | | | | | | | | | | | | | | | | |
| 5 | Smallpox | | | | | | | | | | | | | | | | | |
| 6 | Measles | 3 | 1 | | | | | | | | | | 1 | | 2 | | 3 | |
| 7 | Scarlet fever | | | | | | | | | | | | | | | | | . , . |
| 8 | Whooping cough | 5 | 4 | | | | | | | | | 1 | 2 | | 2 | 2 | 3 | 1 |
| 9 | Diphtheria and croup | 2 | | | | | | | | | | | | | 2 | | 2 | |
| 10 | Influenza | | | | | | | | | | | | | | | | | |
| 14 | Dysentery | , . | | | | | | | | | | | | | | | | |
| 18 | Erysipelas | 2 | | | | | | 1 | | 1 | | | | | | • • • • • ; | 1 | 1 |
| 19 | Other epidemic diseases | | | | | | | | | | | | | | | • • • • • | | |
| 20 | Pus-infection and septicemia, | | 1 | | | | | | | | | | | | | | | |
| 24 | Tetanus | | | | | | | | | | | | | | | | | |
| 28 | Tuberculosis of the lungs | | | | | | | | | | | 1: | | | | | 1 | |
| 29 | Acute miliary tuberculosis | | 2 | | | | | | | | | | | | | | | |
| 30 | Tuberculous meningitis | | | | | | | | | | 1 | | | 2 | | 1 | 2 | 2 |
| 31 35 | Other forms of tuberculosis. | | | | | | | | | | | | | | | • • • | | |
| 36 | Rickets | | | | | | | | | | | | | | | | | |
| 37 | Syphilis | | | | | | | | | | | | | | | | | |
| 38 | Gonococcus infection | | | | | | | | | | | | | | | | | |
| 61 | Simple meningitis | | | | | | | | | | | | | | | | | |
| 61a | Cerebro-spinal fever | | | | | | | | | | | 1 | | 1 | | 1 | 1 | |
| 63a | Acute poliomyelitis | | 1 | | | | | | | | | | | | | | | |
| 71 | Convulsions | | | | | | | | | | | | | | | | | |
| 76 | Diseases of the ears | | | | | | | | | | | | • • • | 1 | | | 1 | |
| 79 | Organic diseases of the heart, | | | | | | | | | | | | | | | | | |
| 89 | Acute bronchitis | | | | | | | | | | | | - • • | | | | | |
| 91 | Broncho-pneumonia | | | ļ ļ | | | | | | | | | 2 | | | | | |
| 92 | Pneumonia | | | | | | 1 | | | | ٠ | | | 3 | | 1 | 2 | |
| 93 | Pleurisy | | | | | | | | | | | • • • | | | | | | |
| 103 | Other diseases of stomach | | | | | | | ļ. | | | | | 1 | 1 | | | | |
| 104 | Diarrhea and enteritis | | 73 | | | | | 2 | 1 | • • • | 5 | 5 | 15 | 18 | 7 | 16 | 35 | 11 |
| 108 | Appendicitis and typhlitis | | | | | | | ••• | | | ••• | ••• | | | | | | |

VITAL STATISTICS.

July, 1913, Infant Mortality.— Concluded.

| t Class | | Tot | LY ALS, DER | 7. | | | Week. | m | m | I Month. | hs. | hs. | hs. | hs. | ths. | 2 W | GED EEKS OVER. | , and |
|--------------------------|---|-----|-------------------|--------------|--------------|--------------|-------------|---------------|---------------|------------|----------------|----------------|----------------|----------------|-----------------|-------------|----------------------|--------------|
| Detailed List Number. | CAUSES OF DEATH. | | EAR. 1912. | Under I Day. | 1 to 2 Days. | 2 to 3 Days. | 3 Days to 1 | I to 2 Weeks. | 2 to 3 Weeks. | 3 Weeks to | I to 2 Months. | 2 to 3 Months. | 3 to 6 Months. | 6 to 9 Months. | 9 to 12 Months. | Breast Fed. | Bottle Fed. | Nonresidents |
| 109 | Hernias, intestinal obstruction, | 3 | 1 | | | | | | | | | | 2 | 1 | | 1 | 2 | 1 |
| 117 | Simple peritonitis | | | ١ | | | | | | | | | | | | | | |
| 119 | Acute nephritis | | 1 | | | : | | | | | | | | | | | | |
| 143 | Furuncle | | | | | | | | | | | | | | | | | |
| 144 | Acute abscess | | | | | | | | | | | | | | | | | |
| 145 | Other diseases of skin, etc | 1 | 2 | | | | | 1 | | | | | | | | | | |
| 150a | Hydrocephalus | 2 | | | | | | | | | 1 | | | | 1 | | 2 | 1 |
| ь | Congenital malformations of heart. | 12 | . 5 | 2 | 1 | 1 | 2 | 2 | 2 | | 1 | 1 | | | | . 2 | 2 | 3 |
| c | Other malformations | 1 2 | 3 | | | 1 | | | | | | | 1 | | | | 1 | 1 |
| 151a | Premature birth | 27 | 45 | 13 | 1 | 2 | 2 | 1 | 2 | 3 | 2 | 1 | | | | 1 | 7 | 1 |
| b | Congenital debility | 10 | 12 | | | | 3 | | | 1 | 3 | | 2 | | 1 | 2 | 1 5 | 2 |
| 152a | Injuries at birth | 8 | 12 | 6 | 1 | 1 | | | | | | | | | | | | |
| b | Other causes peculiar to early infancy. | 5 | 12 | 2 | | 2 | | × • • | | 1 | | | | | | | 1 | |
| 167 | Burns (conflagrations ex- | 1 | 1 | | | | | | | | | | | | 1 | | 1 | |
| 168 | Absorption of deleterious gases, | 4 | 1 | | | | | | 1 | | | 1 | 2 | | | 1 | 3 | |
| 172 | Traumatism by fall | | | | | | | ! | | | | | | | | | | |
| 182) 184) | Homicide | | | | | | . , . | | | | | | | | | | | |
| 187 189 | Ill-defined diseases | | | | | | | | | | | | | | | | | |
| | Other causes | 3 | 4 | | 1 | | | | | | 1 | | | 1 | | | 2 | 1 |
| | Breast fed * | 32 | 35 | | | | | | 4 | | 4 | 2 | 6 | 10 | 6 | 32 | | 2 |
| | Bottle fed * | 82 | 88 | | | | | | 2 | 6 | 10 | 9 | 22 | 19 | 14 | | 82 | 20 |
| | Nonresidents | 25 | 36 | | 1 | 1 | | 1 | 1 | 2 | 5 | 1 | 9 | 3 | 1 | 2 | 20 | 25 |

^{*} Aged two weeks and over.

Additional Deaths for Other Months.

- 1 male; white; organic diseases of the heart; aged 62 years; widower; nonresident; born in United States; mother born in United States.
 - 1 male; white; homicide by other means; aged 36 years; married; nonresident; born in Italy; birthplace of mother unknown.
- May, 1913.—1 female; white; alcoholism; aged 51 years; condition unknown; residence Ward 8; birthplace unknown; birthplace of mother unknown.
- June. 1913.—1 male; white; alcoholism; aged 33 years; condition unknown; residence Ward 7; birthplace
- 1913.—1 male; white; alcoholism; aged 35 years; condition unknown, irribation of mother unknown, birthplace of mother unknown.
 1 male; white; organic diseases of the heart; aged 45 years; single; residence Ward 11; born in United States; birthplace of mother unknown.
 1 male; white; diseases of the arteries, etc.; aged 80 years; married; residence Ward 18; born in England or Wales; mother born in England or Wales. 1 female; white: Bright's disease; aged 68 years; widow; residence Ward 17; born in Ireland; mother born
 - in Ireland.
 - 1 male; white; suicide by cutting or piercing instruments; aged 38 years; single; residence unknown; birthplace other foreign; birthplace of mother other foreign.
 1 female; white; traumatism by fall; aged 27 years; married; residence Ward 17; born in United States;
 - mother born in Ireland.
 - 1 male; white; fracture (cause not specified); aged 28 years; condition unknown; Boston resident; birthplace unknown; birthplace of mother unknown.
 1 male; white; cause not specified; aged 36 years; married; nonresident; born in Russia or Poland; mother born in Russia or Poland.

DIVISION OF COMMUNICABLE DISEASES, JULY, 1913.

Medical Inspectors.

| New cases visited: | | | | | | | | |
|-----------------------|------|------|-----|-------|-----|----|-----|-----|
| Diphtheria: | | | | | | | | |
| a. Isolation | | | | | | | | 63 |
| b. Diagnosis | | | | | | | | 3 |
| Scarlet fever: | | | | | | | | |
| a. Isolation | • ** | • • | | | | | | 22 |
| b. Diagnosis . | 1. | | • . | | | | | 12 |
| c. Release | | | | | • | | | 33 |
| Typhoid fever | | | | | | | | 25 |
| Measles: | | | | | | | | |
| a. Isolation | | | | | | | | 11 |
| b. Diagnosis . | | ٠ | | | | | | 7 |
| Varicella: | | | | | | | | |
| a. Isolation | | | | | | | • • | 4 |
| b. Diagnosis . | | | | ÷ | | | | 1 |
| Ophthalmia neonatorun | α. | | | | | ٠. | | 5 |
| Tuberculosis | | | | . • | | | • | 22 |
| Whooping cough | | , | | | | | | 15 |
| Deaths investigated . | | | | • | | • | • | 10 |
| | Nu | rses | • | | | | | |
| New cases visited: | | | | | | | | |
| Diphtheria | | | | . • / | | | | 126 |
| Scarlet fever | | | | | | | | 58 |
| | | • | 100 | | | | | 21 |
| Whooping cough . | | | | | | | | 67 |
| Ophthalmia neonatorum | | | | ٠ | • • | | | 90 |
| Measles | | | | | | | | 131 |
| Varicella | | | | | | | • ' | 48 |
| Old cases visited: | | | | | | | | |
| Diphtheria | | | | | | | | 108 |
| Scarlet fever | | | | | | | | |
| Typhoid fever | | | | | | | | 40 |
| Whooping cough . | • | | | | | | | 67 |
| Ophthalmia neonatorur | n. | | | | .• | • | | 240 |
| Measles | | | | | • | | | 242 |

| Varicella . | | | | | | | | 67 |
|------------------|------|------|-------|-------|------|------|--|-----|
| Release culture | | | | | | | | 96 |
| Vaccinations pe | erfo | rmed | | | | | | 13 |
| Certificates gra | nte | d . | • | | | | | 0 |
| | | For | cible | Re | mov | als. | | |
| Tuberculosis | | | | | | | | 1 |
| Diphtheria . | | | | | | | | 7 |
| Scarlet fever | | | | | | | | |
| Typhoid fever | | | | | | | | |
| | | Ι | Disin | ıfect | ions | · | | |
| Diphtheria . | | | | | | | | 127 |
| Scarlet fever | | | | | | | | 76 |
| DI /I | | | | | | | | 100 |

| Wards. | Anterior Poliomyelitis. | Actinomycosis. | Asiatic Cholera. | Bubonic Plague. | Cerebro-spinal Meningitis. | Diphtheria. | Glanders. | Leprosy. | Malaria. | Malignant Pustule. | Measles. | Mumps. | Ophthalmia Neonatorum. |
|-------------------------------|----------------------------|----------------|------------------|-----------------|-------------------------------|-------------|-----------|----------|----------|-----------------------|----------|--------|---------------------------|
| | | | | | | 3 | | | | | 18 | 3 | 3 |
| 1 | | | | | | 12 | | | | | 2 | J | 9 |
| 2 | | | | | | | | | 1 | | 12 | 2 | 1 |
| 3 | | | | | | 4 | | | | | | | |
| 4 | | | | | | 2 | | | | | 16 | 4 | 1 |
| 5 | | | | | | 6 | | | 1 | | 8 | 2 | 3 |
| 6 | | | | | | 34 | | | | | 25 | 3 | 19 |
| 7 | | | | | | 1 | | | | | | 5 | 2 |
| 8 | | | | | 1 | 3 | | | | | 8 | 8 | 15 |
| 9 | | | | | 1 | 6 | | | 1 | | | 2 | 8 |
| 10 | | | | | | 1 | | | | | | 3 | |
| tt | | | | | | 1 | | | | | | 7 | 3 |
| 12 | | | | | | 2 | | | | | 1 | 3 | 12 |
| 13 | | | | | | 4 | | | 1 | | 3 | 1 | |
| 14 | | | | | | 3 | | | | | 4 | 2 | 5 |
| 15 | | | | | | 4 | | | | | 4 | 1 | 2 |
| 16 | | | | | 1 | 3 | | | | | 3 | 3 | 2 |
| 17 | | | | | | 7 | | | | | 3 | 2 | 2 |
| 18 | | | | | 1 | 5 | | | | | 3 | | 5 |
| 19 | | | | | 1 | 7 | | | | | 13 | 1 | 4 |
| 20 | | | | | 1 | 7 | | | | | 22 | 5 | 6 |
| 21 | | | | | | | | | | | 14 | 2 | 0 |
| | | | | | | 2 | | | | | | | |
| 22 | | | | | | 10 | | | 1 | | 4 | 1 | 6 |
| 23 | | | | | | 4 | | | | | 6 | | |
| 24 | | | | | | 5 | | | | | 22 | 6 | 1 |
| 25 | | | | | | 3 | | | | | 1 | 3 | 1 |
| 26 | | | | | | 3 | | | | | 14 | | |
| Total | | | | | 5 | 142 | | | 5 | | 206 | 69 | 110 |
| Unknown | | | | | | | | | | | | | 1 |
| Nonresidents | | | | | 1 | 12 | | | | 1 | 12 | | - |
| Troutestachts | | | | | | | | | | | | | |
| Grand total | | | | | 6 | 154 | | | 5 | 1 | 218 | 69 | 111 |
| Corresponding month last year | 2 | | | | 7 | 77 | | | 10 | | 302 | 13 | 87 |
| | ~~~~ | | | | | | | | | | | | |

Included in the nonresidents were the following cases brought to Boston

COMMUNICABLE DISEASES.

Cases Reported.

July, 1913.

| Scarlet Fever. | Smallpox. | Tetanus, | Trachoma. | Trichinosis. | Tuberculosis (Pulmonary and Miliary). | Tuberculosis (Other Forms). | Typhoid Fever. | Typhus Fever. | Varicella. | Whooping Cough. | Yellow Fever. | Wards, |
|----------------|-----------|----------|-----------|--------------|---|-----------------------------|----------------|---------------|------------|-----------------|---------------|--------------------------------|
| 5 | | | | | 9 | | 2 | | 1 | 4 | | |
| 8 | | | 2 | | 14 | | | | 6 | 8 | | 2 |
| 1 | | | 1 | | 6 | 1 | | | 2 | | | 3 |
| | | | | | 7 | | 1 | | | | | 4 |
| 1 | | | | | 4 | 1 | 2 | | | | | 5 |
| 2 | | | 1 | | 23 | 3 | 7 | | 8 | 10 | | 6 |
| | | | | | 22 | | | | 1 | 2 | | |
| 9 | | | 2 | | 13 | 2 | 3 | | 7 | 17 | | 8 |
| | | | 2 | | 17 | 2 | | | 4 | 2 | | 9 |
| | | | | | 5 | 1 | 1 | | | | | |
| | | | | | 6 | 1 | | | 2 | | | |
| 1 | | | | | 11 | | 2 | | | 2 | | |
| | | | 1 | | 13 | 1 | | | | 6 | | |
| 4 | | | | | 10 | 1 | | | 1 | 5 | | |
| | | | | | 6 | 1 | | | | 1 | | |
| 2 | | | | | 3 | 1 | | | 1 | | | |
| 5 | | | | | 10 | | | | | 8 | | |
| 1 | | | | | 13 | 1 | 1 | | 1 | 2 | | |
| 2 | | | | | 9 | | 1 | | 2 | 7 | | |
| 3 | | | | | 12 | | 3 | | 2 | 8 | | |
| 5 | | | | | 2 | | 1 | | 3 | | | 21 |
| 1 | | | | | 7 | 1 | | | 3 | 2 | | 22 |
| 3 | | | | | 4 | | | | 1 | 4 | | |
| 2 | | | | | 16 | 1 | 2 | | | 8 | | |
| 2 | | | | | 2 | 2 | | | | 2 | | |
| 4 | | | | | 4 | | <i>.</i> . | | 1 | | | 26 |
| | | | | | | | | | | | | |
| 61 | | | 9 | | 248 | 20 | 26 | | 46 | 98 | | ·····Total |
| • • • • • • | | | | | | | | | | 1 | | |
| 3 | | 1 | 5 | | 14 | 11 | 2 | | | | | Nonresidents |
| 64 | | 1 | 14 | | 262 | 31 | 28 | | 46 | 99 | | Grand total |
| 33 | | | 3 | | 276 | 35 | 34 | | 45 | 77 | | Corresponding month last year. |

for treatment: Diphtheria, 12; scarlet fever, 3; measles, 12; typhoid fever, 2.

DIVISION OF CHILD HYGIENE.—JULY, 1913. Pre=Natal and Post=Natal Work.

| Pre=Natai and Post=Natai work. |
|--|
| 1. Pre-Natal. |
| Number cases . 8 Babies born . 4 Number visits . |
| Mothers attended as follows: |
| Family physician |
| Defective conditions noted: |
| Varicose veins |
| 2. Post-Natal. |
| Number cases 1,603 Number visits 5,959 |
| Visits were made to 306 homes, where babies were not seen, on account of wrong addresses, removal, etc. |
| Breast-fed 1,141 Breast and bottle fed 139 Bottle-fed 323 \mid |
| Defective conditions noted as follows: |
| Umbilical hernia |
| The following letter was sent to the mothers of about one thousand babies in Wards 11, 16, 20, 23, 24, 25 and 26, who had not been visited owing to the demands of other divisions for the services of some of the nurses of this division and the resignation and illness of two. Seven hundred sixty-three replies have been received in response to this letter, stating that 533 babies were breast-fed and 230 babies were bottle-fed. An additional corps of nine nurses, appointed for the summer months, was immediately sent to visit and advise the mothers of these bottle-fed babies. |
| Health Department, Boston, July 9, 1913. |
| Dear Madam: To assist the Health Department in its campaign to save the babies of Boston, will you please answer the following questions regarding your baby born on |
| Yours truly, |
| Division of Child Hygiene, W. J. Gallivan, M. D., <i>Chief</i> . |
| Examination of Licensed Minors. |
| There were 385 girls and 369 boys between the ages of 14 and 16 years examined during this month. Two hundred and |

There were 385 girls and 369 boys between the ages of 14 and 16 years examined during this month. Two hundred and sixty-four were found to be without defects and 490 with defects, as follows:

| Eyesight | 25 | Pulmonary disease, | (r | on- | |
|---------------------------|-----|--------------------|----|-----|---|
| Mental deficiency . | 1 | tuberculous) . | | | 1 |
| Defective nasal breathing | 8 | Orthopedic defects | | | 3 |
| Hypertrophied tonsils | 15 | Cardiac disease . | | | 5 |
| Defective teeth | 434 | Miscellaneous . | | | 3 |

Certificates were refused at this time to four applicants.

BACTERIOLOGICAL LABORATORY.

| BACTERIOLOGICA | AL LABORATORY. |
|--|--|
| DIPHTHERIA: | GONORRHEA: |
| Examination as to S Samples examined, milk from stores | ILK, VINEGAR, ETC. tatute Requirements. 505 674 |
| " milk brought in by citize " "milk for bacteriological e " bacteriological ice cream " vinegar | ns. 21 xamination. 769 21 67 3 1 |
| Total samples | |
| Cattle inspected 306 Calves inspected 574 Sheep inspected 2 Swine inspected 2,656 INSPECTION OF PROVISION | Cattle condemned (6 whole). 1,585 bls. Cattle condemned (parts 61). 1,848 lbs. Calves condemned (1 whole). 28 lbs. Sheep condemned (1 whole). 450 lbs. Swine condemned (3 whole). 450 lbs. Swine condemned (parts of 154), 1,647 lbs. S.— ARTICLES CONDEMNED. |
| Meats. Veal (tainted) 230 lbs. Veal unstamped out of state 90 lbs. Mutton (tainted) 7 lbs. Beef (tainted) 245 lbs. Pork (tainted) 18 lbs. Poultry (tainted) 157 lbs. | Miscellaneous. Fish (tainted) |
| SANITARY | DIVISION. |
| New reports. Reinspections. New tenement house reports. Nuisances reported. Legal notices. Court cases. Fines Tenements vacated. Milk applications approved. Stable permits granted. Stable permits withheld Stable permits refused. Stable hearings. Stables vacated. Dump permits granted. | 2,889 9,353 483 6,324 445 5 830.00 138 2 0 5 5 2 6 6 |
| | NOTALO |
| QUARA Vessels inspected at quarantine Total immigrants arriving in Boston | NTINE. 77 10,417 |

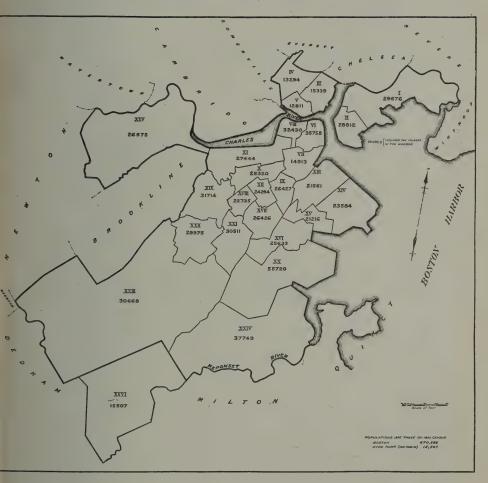
MONTHLY METEOROLOGICAL SUMMARY Taken at Weather Bureau, Boston, July, 1913.

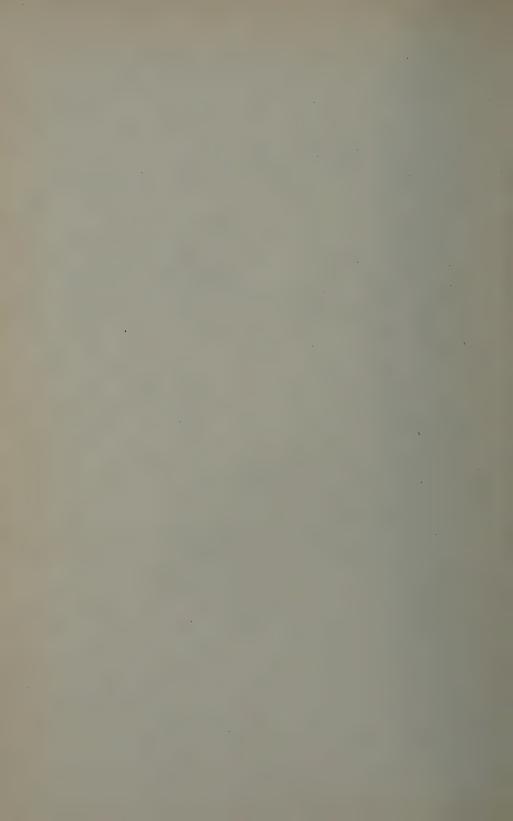
| Day. | | EMPERAT DEGREE | s | midity. | itation. | Sun- | WIND. | | | |
|--------|----------|-------------------|-------|-------------------|---------------------|-----------------------------|--|----------------------------------|--------------------------|--|
| | Maximum. | Minimum. | Mean. | Relative Humidity | Daily Precipitation | Actual Hours Sun- shine. | Average Hourly Velocity. (Miles.) | Maximum Velocity. (Miles.) | Prevailing Direction. | |
| 1 | 96 | 71 | 84 | 64 | 0 | 11.8 | 14.1 | 21 | s. w. | |
| 2 | 91 | 72 | 82 | 52 | 0 | 12.7 | 9.9 | 17 | w. | |
| 3 | 79 | 68 | 74 | 58 | Ó | 13.8 | 8.6 | 15 | S. E. | |
| 4 | 93 | 66 | 80 | 52 | 0 | 14.0 | 12.2 | 20 | s. w. | |
| 5 | 95 | 73 | 84 | 6.6 | 0 | 10.2 | 10.8 | 17 | s. w. | |
| 6 | 92 | 71 | 82 | 66 | T | 5.9 | 10.5 | 24 | s. w. | |
| 7 | 72 | 60 | 66 | 52 | т | 10.3 | 13.1 | 26 | w, | |
| 8 | 82 | 61 | 72 | 48 | .02 | 12.7 | 7.0 | 22 | w. | |
| 9 | 84 | 61 | 72 | 58 | .05 | 11.1 | 12.6 | 26 | s. w. | |
| 10 | 80 - | 64 | 72 | 72 | .62 | 6.3 | 13.7 | 27 | w. | |
| 11 | . 80 | 60 | 70 | 58 | 0 | 15.0 | 11.4 | 19 | W. | |
| 12 | 84 | 60 | 72 | 56 | Т | 13.5 | 10.7 | 23 | s. w. | |
| 13 | 89 | 68 | 78 | 52 | 0. | 13.8 | 16.7 | 31 | s. w. | |
| 14 | 79 - | 66 | 72 | 54 | .04 | 12.2 | 13.8 | 26 | w. | |
| 15 | 80 | - 62 | 71 . | 52 | 0 | 14.9 | 9.0 | 16 | N. W. | |
| 16 | 70 | 60 | 65 | 68 | 0 | 10.9 | 7.2 | 14 | E. | |
| 17 | 80 | 60 ° | 70 | 74 | 0 | 12.7 | 7.5 | 17 | S. | |
| 18 | 70. | 61 | 66 | 86. | . 25 | 0 | 8.5 | 17 | S. W. | |
| 19 | 87 | 61 | 74 | 66 | 0 | 13.2 | 7.0 | 16 | w. | |
| 20 | 87 | 66 | 76 | 66 | Т | 7.4 | 6.1 | 20 | N.W. | |
| 21 | 77 | 64 | 70 | 75 | Т | 0 | 6.6 | 19 | \mathbf{W} . | |
| 22 | 86 | 63 | 74 | 68 | 0 | 13.2 | 9.4 | . 17 | s. w. | |
| 23 | 86 | 66 | 76 | 64 | 0 | 12.2 | 13.3 | 25 | s. w. | |
| 24 | 83 | 68 | 76 | 82 | .19 | 5.0 | 10.2 | 19 | S. W. | |
| 25 | 81 | 65 | 73 | 55 | .04 | 14.7 | 11.4 | 24 | N. W. | |
| 26 | 83 | 60 | 72 | 62 | 0 | 14.6 | 10.0 | 19 | s. w. | |
| 27 | 87 | 63 | · 75 | 62 | 0 | 13.6 | 9.8 | 21 | s. w. | |
| 28 | 84 | 64 | 74 | 90 | . 57 | 7.3 | 7.8 | 16 | s. w. | |
| 29 | 78 | 65 | 72 | 92 | 0 | 8.3 | 7.1 | 13 | E. | |
| 30 | 84 | 72 | 78 | 78 | :91 | 10.8 | 7.4 | 39 | w. | |
| 31 | 74 | 63 | 68 | 72 | 0 | 12.5 | 10.3 | 17 | E. | |
| Totals | | · | | | 2.69 | 334.6 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | |
| Means | 83.0 | 64.6 | 73.9 | 65.2 | 0.09 | 73% | 10.1 | 30th | S. W. | |
| | | | | · | | | | | | |

Latitude 42 degrees 21 minutes.

Longitude 71 degrees 4 minutes.

BOSTON WARD MAP.





MONTHLY BULLETIN

OF THE

HEALTH DEPARTMENT

OF THE

CITY OF BOSTON



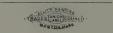
| | | | | | | Pagi |
|-----------------------------|-----|--|---|--|--|-------|
| Vital Statistics for August | • ; | | ٠ | | | . 177 |
| Monthly Reports | | | | | | . 188 |

CITY OF BOSTON PRINTING DEPARTMENT 1913

ORGANIZATION OF THE HEALTH DEPARTMENT

FRANCIS X. MAHONEY, M. D., *Chairman*. P. H. MULLOWNEY, M. D. V.

F. H. SLACK, M. D., Secretary.



MONTHLY BULLETIN

OF THE

HEALTH DEPARTMENT OF THE CITY OF BOSTON.

All communications relating to this publication should be addressed to BULLETIN OF THE HEALTH DEPARTMENT, 100 Summer St., Boston,

Vol. 2.

Boston, August, 1913.

No. 8.

SUMMARY OF VITAL STATISTICS FOR THE MONTH OF AUGUST, 1913.

Boston had 882 deaths in August, 1913, compared with 885 for August of last year; and a death rate of 14.12 against 14.47 for August, 1912. Deaths of nonresidents numbered 136 against 128 a year ago. Deducting deaths of nonresidents the corrected death rate for August, 1913, was 11.94 against 12.38 for August, 1912.

Of deaths from reportable diseases the principal decrease was typhoid fever 4; and the principal increases were tuberculosis (all forms), 15; and diphtheria, 4.

Other important differences were as follows:

| August, 1913, decreases co | om | pared | witl | ı Aug | ust, | 1912 | 2: | | |
|----------------------------|------|---------|-------|-------|------|------|-------|---|----|
| Organic heart disease | , В | right's | s dis | sease | and | neph | ritis | : | 14 |
| Diarrhea and enteriti | s (1 | ınder | 2 y | ears) | | | | | 13 |
| Puerperal diseases | | | | | | | | | 7 |
| Violent deaths . | | | | | | | | | 7 |
| August, 1913, increases co | mp | ared | with | Aug | ust, | 1912 | : | | |
| Broncho-pneumonia | | | | | | | | | 14 |
| Cancer | | | | | | | | | 12 |

Ward 11 again had the lowest death rate, 7.28, and Ward 5 the highest, 19.15. There were 4 more deaths under one year than in August, 1912, 17 more under 5 years, and 2 less over 60.

Total deaths under one year numbered 228, which is 63 less than the average number for August for the preceding five years. Of these 228 deaths, 102 were due to diarrhea and enteritis, 69 to premature birth, congenital debility, malformations and other diseases peculiar to early infancy; 18 to pneumonia and broncho-pneumonia; 15 to reportable diseases and 24 to other causes.

Of deaths under one year Ward 6 had the largest number, 17, and Ward 1 came next with 15. One hundred and seventy-one were over two weeks old and of these 120 were bottle-fed.

GENERAL STATISTICS.

Population, Ward Area, Persons to Acre, and Rates.

| | | 18. | la- | | STILLBI | ктна Е: | KCLUDED. |
|----------|---------------------|--------------------------|--|--|--|--|---|
| | Land Area in Acres. | Population, 1910 Census. | Persons to Acre of Land. (Using Census Population.) | Population, Estimated, July 1, 1913.† | Death Rates, 1912. (Population, Estimated.)† | Birth Rates, 1911. (Population, Estimated.)† | Death Rates, 1912, of Children Under One Year, Per 1,000 Births, 1911. |
| * Boston | 27,674 | 686,092 | 24.8 | 735,399 | 16.17 | 25.99 | 119.35 |
| Wards 1 | 1,188 | 29,676 | 24.9 | 32,439 | 13.05 | 24.90 | 104.58 |
| 2 | 357 | 28,812 | 80.7 | 30,676 | 17.11 | 33.37 | 120.81 |
| 3 | 332 | 15,339 | 46.2 | 15,667 | 15.29 | 26.84 | 106.02 |
| 4 | 301 | 13,294 | 44.1 | 13,808 | 18.02 | 25.50 | 148.26 |
| 5 | 207 | 12,811 | 61.9 | 12,914 | 16.69 | 24.28 | 118.59 |
| 6 | 293 | 35,758 | 122.0 | 39,492 | 16.18 | 48.81 | 100.33 |
| 7 | 394 | 14,913 | 37.9 | 14,483 | 20.05 | 26.57 | 94.39 |
| 8 | 171 | 32,430 | 189.6 | 33,479 | 12.07 | 33.21 | 70.64 |
| 9 | 186 | 26,427 | 141.5 | 29,214 | 15.13 | 27.40 | 106.24 |
| 10 | 394 | 25,320 | 64.3 | 26,277 | 11.86 | 10.51 | 114.81 |
| 11 | 663 | 27,444 | 41.4 | 30,738 | 9.69 | 14.22 | 63.73 |
| 12 | 235 | 24,294 | 103.4 | 25,948 | 14.98 | 14.57 | 181.82 |
| 13 | - 611 | 21,561 | 35.3 | 21,501 | 17.24 | 31.11 | 117.91 |
| 14 | 405 | 23,584 | 58.2 | 24,527 | 14.44 | 24.14 | 115.92 |
| 15 | 277 | 21,216 | 76.6 | 21,803 | 14.80 | 20.25 | 119.82 |
| 16 | 564 | 25,633 | 45.6 | 28,033 | 12.75 | 24.23 | 110.42 |
| 17 | 460 | 26,426 | 57.4 | 27,793 | 15.49 | 25.65 | 117.22 |
| 18 | 220 | 22,735 | 103.3 | 23,133 | 17.08 | 25.08 | 99.30 |
| 19 | 760 | 31,714 | 41.7 | 33,332 | 13.77 | 22.77 | 111.41 |
| 20 | 1,716 | 55,720 | 32.5 | 64,723 | 12.97 | 20.33 | ‡158.90 |
| 21 | 640 | 30,511 | 20.5 | 33,085 | 13.54 | 17.53 | 85.14 |
| 22 | 760 | 29,975 | 38.1 | 31,403 | 12.50 | 20.55 | 100.48 |
| 23 | 7,617 | 30,668 | 4.0 | 33,423 | 12.13 | 19.93 | 94.94 |
| 24 | 3,252 | 37,749 | 11.6 | 41,695 | 12.63 | 23.73 | 103.11 |
| 25 | 2,740 | 26,575 | 9.7 | 29,661 | 11.95 | 24.73 | 96.21 |
| 26 | 2,869 | 15,507 | 5.4 | 16,152 | 12.29 | 29.59 | 107.30 |

^{*}Hyde Park was annexed to Boston January 1, 1912, and became Ward 26. Under "Boston," in the above table, Hyde Park statistics are included.

[†] Population estimated by arithmetical method, using the censuses of 1905 and 1910. ‡ An infant asylum is located in this ward.

August. General Summary.

| | | | | • | 1913. | 1912. |
|------------------------|--|--|--|---|---------|---------|
| Total deaths | | | | | 882 | 885 |
| Population, estimated* | | | | | 735,399 | 720,031 |
| Death rate per 1,000 | | | | | 14.12 | 14.47 |
| Deaths of nonresidents | | | | | 136 | 128 |
| Corrected death rate† | | | | | 11.94 | 12.38 |

^{*} Population estimated by arithmetical method, using the censuses of 1905 and 1910.

† Nonresidents not included.

August, 1913. Statement of Deaths.

| Total number | r (st | illbir | ths | ex- | | NATIVITY | ζ. | | |
|---|-------------------------------|-----------------|-----|-----|------------------------------|--|------|--------|--|
| cluded) | | | | | 882 | United States . | | | 570 |
| ŕ | | | | | | Ireland | | | 134 |
| | S | EX. | | | | England and Wales | | | 17 |
| Malag | | | | | 496 | Scotland | | | 8 |
| Males . | | | | | | Germany | | | 8 |
| Females . | ٠ | ٠ | | | 386 | Canada | | | |
| | | | | | | Italy | | | |
| (| Coni | OITIO | ٧. | | | Russia and Poland | | | |
| Single . | | | | | 473 | Sweden and Norway | | | |
| Married . | | | | | 253 | France | | | |
| Widowed | | | | | 145 | Other countries . | | | |
| | | | | | | Unknown | | | 11 |
| Divorced | | • | | | 5 | NATIVITY OF M | [отв | ERS. | |
| Unknown | | | ٠ | | 6 | United States . | | | 252 |
| | | | | | | omieu states . | • | | |
| | | | | | | Ireland | | | 757 |
| | Со | LOR. | | | | Ireland | | | 257 31 |
| White . | | | | | 848 | England and Wales | | | 31 |
| White . | | | | | | England and Wales Scotland | | , , | 31 16 |
| White . Black (negro | or m | ixed) | | | 32 | England and Wales Scotland Germany | | · . | 31 16 12 |
| White . Black (negro Chinese . | or m | nixed) | | | 32 2 | England and Wales Scotland Germany Canada | | | 31 16 12 83 |
| White . Black (negro Chinese . Deaths of ch | or m .ildre | nixed) n: | | | 32 | England and Wales Scotland Germany Canada Italy | | | 31 16 12 83 64 |
| White . Black (negro Chinese . | or m .ildre | nixed) n: | | | 32 | England and Wales Scotland Germany Canada Italy Russia and Poland | | | 31 16 12 83 64 47 |
| White . Black (negro Chinese . Deaths of ch | or m .ildre year | ixed) . n: | | | 32 | England and Wales Scotland Germany Canada Italy Russia and Poland Sweden and Norway | | | 31 16 12 83 64 47 13 |
| White . Black (negro Chinese . Deaths of ch Under one Under two | or m ildre year | ixed) . n: . rs | | | 32 2 228 270 | England and Wales Scotland Germany Canada Italy Russia and Poland Sweden and Norway France | | | 31 16 12 83 64 47 13 |
| White . Black (negro Chinese . Deaths of ch Under one | or m ildre year year | ixed) . n: . rs | | | 32 2 228 270 296 | England and Wales Scotland Germany Canada Italy Russia and Poland Sweden and Norway | | | 31 16 12 83 64 47 13 |

| <u> </u> | | | | 1 1 | | | 1 | | | | | |
|--------------------------------|--|-------|-------|------------|----------|----------|-----------|--------|------------|----------|---------|-----------|
| Abridged List Class Number. | | Тот | ALS. | Year. | | | , | | Years. | 82 | Years | 19 Years. |
| ed I | CAUSES OF DEATH. | | | 1 Y | | υž | ıά | 22 | NO. | Years. | 14 Y | Y 6 |
| ridg | | 1913. | 1912. | Under 1 | Year. | Years. | Years. | Years. | Under | to 9 | သူ | 5 |
| Ab | | | | D C | 1 | 2.7 | 3 | 4.3 | Un | 5 t | 10 | 15 |
| | Total, all causes | 882 | 885 | 228 224 | 42 33 | 10 13 | 10 | 6 2 | 296 279 | 17 15 | 13 8 | 11 21 |
| 1 | Typhoid fever | 5® | 9 | | | | | | | | | 1 |
| 3 | Malarial fever | | | | | | | | | | | |
| 4 | Smallpox | | | | | | | | | | | |
| 5 | Measles | 3 | 、 1 | 1 | 2 | | | | 3 | | | |
| 6 | Scarlet fever | . 1 | , | , | 1 | | | | 1 | | | |
| 7 | Whooping cough | 8 | - 9 | 6 | 1 | 1 | | | 8 | | ···· | |
| 8 | Diphtheria and croup | 8 | 4 | . 2 | 1 | | | | 3 | 4 | | 1 |
| 9 | Influenza | 1 | | | | | | | | | | |
| 11 | Cholera nostras | | 1 | | | | | | | | | |
| 12 | Other epidemic diseases | 4 | 4 | · 2 | | | | 1 | 3, | | | |
| 13 | Tuberculosis of the lungs | 89 | 74 | 4 | 1 | | | | 5 | | 2 | . 2 |
| 14 | Tuberculous meningitis | 9 | ′ 8 | 2 | 3 | | 2 | | 7 | 1 | 1 | |
| 15 | Other forms of tuberculosis | 4 | 5 | | 1 | | . 1 | | 2 | | | |
| 16 | Cancer, malignant tumor | 77 | 65 | | | | | | | | | 1 |
| 17 17a | Simple meningitis (except cerebrospinal meningitis). Cerebro-spinal meningitis | 3 | 3 | 1 | 1 | | • • • • • | | 2 | | | ., |
| 18 | Apoplexy and softening of the brain, | 40 | 38 | 2 | | | | | 2 | | | |
| 19 | Organic heart diseases | 96 | 117 | | | | | | | 1 | 2 | 2 |
| 20 | Acute bronchitis | 4 | 3 | 2 | 1 | | | ***** | 3 | | _ | |
| 21 | Chronic bronchitis | 3 | 1 | ļ <u>.</u> | ļ | | | | | | | |
| 22 | Pneumonia (except broncho-pneu- | 31 | . 33 | 5 | 2 | 1 | 1 | | 9 | | | |
| 22a | monia). Broncho-pneumonia | 30 | 16 | 13 | 6 | | 1 | . 1 | 21 | | 1 | |
| 23 | Other respiratory diseases | . 2 | 4 | | | | 1 | | 1 | | | |
| 24 | Diseases of the stomach (cancer ex- | 4 | 4 | 1 | 1 | | | | 2 | | | |
| 25 | cepted). Diarrhea and enteritis (under two | 116 | 129 | 102 | 14 | | | | 116 | | | |
| 26 | years). Appendicitis and typhlitis | 7 | 9 | | | | | | | | | 1 |
| 27 | Hernia, intestinal obstruction | 12 | 9 | 1 | 1 | . 1 | | | 3 | | 1 | |
| 28 | Cirrhosis of liver | 3 | 7 | | | | | | | | | |
| 29 | Bright's disease and nephritis | . 48 | 41 | 1 | | | | | 1 | | | |
| 30 | Diseases of women (not cancer) | 4 | 6 | | | | | | | | | |
| 31 | Puerperal septicemia | 2 | .4 | | | | | | | | | |
| 32 | Other puerperal diseases | 2 | 7 | | | | | | | | | |
| 33 | Congenital debility and malforma- | 55 | 54 | 54 | | | | | 54 | 1 | | |
| 34 | Old age | 5 | 2 | | | | | | | | | |
| 35 | Violent deaths | . 56 | 63 | 3 | 2 | 2 | 1 | 4 | 12 | 5 | 2 | 2 |
| 36 | Suicide | 9 | 8 | | | | | | | | | |
| 37 | Other diseases | 140 | 137 | 26 | 4 | 5 | 3 | | 38 | 5 | 4 | 1 |
| 38 | Ill-defined causes | 1 | 5 | | | | | | | | | |

August, 1913.

| ears. | Years. | Years. | Years. | ears. | Years. | Years. | Years. | Years. | Years. | Years. | 79 Years. | 84 Years. | ears. | nd | | Sex. | nist imber. |
|-----------------|------------|------------|------------|-----------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------------|--------------------|------------|------------|--------------------------------|
| 20 to 24 Years. | 25 to 29 Y | 30 to 34 Y | 35 to 39 Y | 40 to 44 Years. | 45 to 49 Y | 50 to 54 Y | 55 to 59 Y | 60 to 64 Y | 65 to 69 Y | 70 to 74 Y | 75 to 79 Y | 80 to 84 Y | 85 to 89 Years. | 90 Years and over. | Males. | Females. | Abridged List Class Number. |
| 26 28 | 25 36 | 23 36 | 41 45 | 45 46 | 62 53 | 57 56 | 43 37 | 53 37 | 52 68 | 36 44 | 37 42 | 25 23 | 15 9 | 5 2 | 496 457 | 386 428 | |
| 2 | | | 1 | | 1 | | | | | | | | | | 2 | 3 | 1 |
| | | | | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | 4 |
| | | | | | | | | | | | | | | | 3 | , . | 5 |
| | | | | | | | | | | | | | | | | 1 | 6 |
| | | | | | | | | | | | | | | | 6 | 2 | 7 |
| | | | | * * * * * | | | | | | | | | | | 4 | .4 | 8 |
| | | 2 | | | | | , | 1 | | | | | | | | 1 | 9 |
| | | | | 1 | | | | | | | | | | | 2 | 2 | 11 |
| 10 | 9 | 10 | 12 | 13 | 5 | | 6 | 2 | 1 | 2 | 1 | 1 | | | 45 | 44 | 13 |
| , | | | | | , | | | | | | | | | | 3 | 6 | 14 |
| | | | | 2 | | | | | | | | | | | 3 | 1 | 15 |
| | | 1 | 4 | 5 | 12 | 9 | 11 | 12 | 13 | 3 | 3 | 1 | 2 | | 36 | 41 | 16 * |
| | | | | | | | | | 1 | | | | | | 2 | 1 | 17 |
| | | | | | | | | | | | | | | | | | 17a |
| | | | 2 | 1 | | 6 | 5 | 2 | 3 | 8 | 3 | 6 | 2 | | 16 | 24 | 18 |
| 2 | 1 | 4 | 4 | 4 | 8 | 9 | 4 | 14 | 11 | 11 | 8 | 4 | 6 | 1 | 48 | 48 | 19 |
| | | . : | | | | | | 1 | | | | | | | 3 | 1 | 20 |
| | | | | | | 1 | | | | | 2 | | | | 2 | 1 | 21 |
| | 1 | 2 | 1 | 3 | 2 | 2 | 1 | 5 | 3 | 1 | 1 | | | | 19 | 12 | 22 |
| | | | | 1 | 1 | 1 | | | 1 | | 2 | 1 | 1 | | 15 | 15 | 22a |
| | | | | | | 1 | | | | | | | | | 2 | | 23 |
| | | | 1 | | | 1 | | | | | | | | | 3 | 1 | 24 |
| | | | | | | | | | | | | | | | 72 | 44 | 25 |
| | 1 | 1 | | 1 | 2 | | | 1 | | | | | | | 5 | 2 | 26 |
| • • • • • | | | 1 | 1 | 2 | | 1 | 1 | | | 1 | | | 1 | 6 | 6 | 27 |
| | | | 1 | | 1 | | 1 | | | \ | | | | | 1 | 2 | 28 |
| 2 | 5 | | 3 | 4 | 3 | 4 | 7 | 5 | 5 | 4 | 3 | 1 | 1 | | 24 | 24 | 29 |
| | 1 | | 1 | 1 | | 1 | | | | | | | | | | 4 | 30 |
| 1 | 1 | | | | | | | | | | | | | | | 2 2 | 31 |
| 1 | | | | | | | | | | | | | | | 34 | 21 | 33 |
| | | | | | | | | | | | 1 | 2 | 1 | 1 | 3 | 21 | 34 |
| 5 | 4 | | 2 | 1 | 8 | 2 | 4 | | i | | | | 1 | | | 10 | 35 |
| | | | | 1 | 1 | 2 | - | | 3 | | | | | | | 2 | 36 |
| 3 | | | | 6 | 16 | 10 | 3 | 8 | 9 | 7 | 10 | 8 | 1 | 2 | 83 | 57 | 37 |
| | | | | | | | | 1 | | | | | | | | | |
| | | 1 | 1 | ! | 1 | 1 | | 1 | | | 1 | | | 1 | | 1 | |

| Abridged List Class Number. | Causes of Death. | on. | | | | | WARI | RESI | DENCE | , | | | |
|-------------------------------|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------|---------------|--------------|
| Abrid | | Boston. | 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | 11. |
| | All causes | 882 | 41 | 38 | 19 | 16 | 21 | 45 | 19 | 24 | 30 | 23 | 19 |
| | Rates per 1,000 popula- {1913 tion | 14.12 14.47 | 14.88 11.56 | 14.59 13.69 | 14.28 15.13 | 13.64 17.25 | 19.15 11.88 | 13.42 14.44 | 15.45 14.50 | 8.44 11.72 | 12.09 14.54 | 10.31 9.52 | 7.28 7.93 |
| 1 | Typhoid fever | 5 | | | | | | 1 | | | | | |
| 3 | Malarial fever | | | | | | | | | | | | |
| 4 | Smallpox | | | | | | | | | | | | |
| 5 | Measles | 3 | | 1 | | | | | | 1 | | | |
| 6 | Scarlet fever | 1 | | | | | | | | | | | |
| 7 | Whooping cough | 8 | | | 1 | | | 3 | | | | 1 | |
| 8 | Diphtheria and croup | 8 | 1 | 1 | 1 | | | 2 | | | | 1 | |
| 9 | Influenza | 1 | 1 | | | | | | | | | | |
| 12 | Other epidemic diseases | 4 | | 2 | | | | | | | | | |
| 13 | Tuberculosis of the lungs | 89 | 3 | 5 | | 2 | 2 | 3 | 2 | 1 | 6 | | 1 |
| 14 | Tuberculous meningitis | | | | | | | 1 | | | 1 | | |
| 15 | Other forms of tuberculosis | | | | | | | | | | | | |
| 16 | Cancer, malignant tumor | 77 | 3 | 1 | | | 3 | × 1 | 3 | 1 | 1 | 2 | 2 |
| 17 17a | Simple meningitis (except cerebro-spinal meningitis). Cerebro-spinal meningitis | 3 | | | | | | | | | | | |
| 18 | Apoplexy and softening of the | 40 | 4 | 2 | | 2 | 1 | | | | 1 | 3 | |
| 19 | brain. Organic heart diseases | | 5 | 7 | 1 | | 6 | 6 | 2 | 3 | 4 | 2 | 2 |
| 20 | Acute bronchitis | 4 | | | | | | 1 | | <u> </u> | | 1 | |
| 21 | Chronic bronchitis | 3 | | | | 1 | | | | | | 1 | |
| 22 | Pneumonia (except broncho- | | 1 | | | 1 | | 1 | 1 | | | 2 | 2 |
| 2 2a | pneumonia). Broncho-pneumonia | 30 | 3 | 3 | 1 | | | 3 | 1 | 2 | 2 | 1 | 2 |
| 23 | Other respiratory diseases | 2 | , | | | | | | 1 | | | - | |
| 24 | Diseases of the stomach (cancer | 4 | | | | | | | | | | | |
| 25 | excepted). Diarrhea and enteritis (under | 116 | 8 | 5 | 4 | 4 | 2 | 7 | 1 | 4 | 2 | | 3 |
| 26 | two years). Appendicitis and typhlitis | 7 | | | | | | | | | | | |
| 27 | Hernia, intestinal obstruction, | 12 | | 3 | | | 1 | | | | | 1 | |
| 28 | Cirrhosis of liver | 3 | | | | | | | | | | | |
| 29 | Bright's disease and nephritis | 48 | 1 | | 2 | 1 | 1 | 2 | | 3 | 4 | 1 | 3 |
| 30 | Diseases of women (not cancer), | 4 | | 1 | | | | | | | | 1 | |
| .31 | Puerperal septicemia | 2 | | | | | | 1 | 1 | | | | |
| 32 | Other puerperal diseases | 2 | | | | | | | | | | | |
| 33 | Congenital debility and mal- | 55 | 4 | 2 | 3 | | 1 | 3 | 1 | 4 | 3 | 2 | 2 |
| 34 | formations. Old age | 5 | 1 | | | 1 | | | | | | 1 | |
| 35 | Violent deaths | 56 | 1 | 1 | | | | 5 | 2 | 1 | 1 | | |
| 36 | Suicide | 9 | 2 | | | | 1 | 14 | | | 1 | | |
| 37 | Other diseases | 140 | 3 | 4 | 6 | 4 | 3 | 4 | 4 | 4 | 4 | 3 | 2 |
| 38 | Ill defined causes | 1 | | | | | | | | | | | |
| | Total deaths under one year | 228 | 15 | 9 | 7 | 4 | 6 | 17 | 3 | 12 | 7 | 6 | 6 |

| Unknown. Abridged List | Nonresidents. | Boston, Ward | | | | | | | DENCE | Resi | WARI | | | | | | gile mellig (c) |
|--|---------------|--------------|---------------|---------------|----------------|----------------|---------------|---------------|-------|----------------|----------------|----------------|---------------|----------------|----------------|----------------|-----------------|
| Unknown. Abridged L | Nonre | Bosto | 26. | 25. | 24. | 23. | 22. | 21. | 20. | 19. | 18. | 17. | 16. | 15. | 14. | 13. | 12. |
| 11 | 136 | 2 | 14 | 21 | 40 | 31 | 24 | 38 | 42 | 36 | 25 | 31 | 27 | 22 | 27 | 27 | 33 |
| | | | 10.21 6.64 | 8.34 10.26 | 11.30 14.55 | 10.92 11.93 | 9.00 14.07 | 13.52 5.84 | 7.64 | 12.72 13.63 | 12.72 16.89 | 13.13 12.05 | 11.34 6.90 | 11.88 10.35 | 12.96 12.15 | 14.79 15.32 | 14.97 12.96 |
| 1 | | | | | 1 | 1 | | | | | | | 1 | | | 1 | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | 1 | | | | | 1 | | |
| 7 | | | | | | | | | | | | | | 2 | | 1 | |
| 8 | | | | | | | | | | | | 1 | | | | 1 | |
| 9 | | | | | | | | | , | | | | | | | | |
| 12 | | | | 1 | | | | | | | | | | 1 | | | |
| 1 13 | 7 | | | 1 | 5 | 4 | 3 | 5 | 6 | 1 | 4 | 6 | 7 | 4 | 4 | 3 | 3 |
| 14 | 2 | | 1 | | | 1 | | | . 1 | | 1 | 1 | 1 | | | 1 | |
| 1 16 | 16 | | 1 | 3 | 5 | 3 | 3 | 7 | 1 | 3 | , , | 3 | 3 | 2 | 3 | 1 | 5 |
| 17 | | | | | | | | | 1 | 2 | | | | | | | |
| 176 | | | | | | | | | | | | | | | | | |
| 18 | 2 | | 1 | 2 | 3 | 1 | 2 | 5 | 4 | 1 | 1 | 1 | . : | | 1 | 1 | 2 |
| 1 19 | 9 | | 2 | 1 | 3 | 4 | 2 | 7 | 4 | 10 | 4 | | 2 | 3 | 1 | | * 5 |
| 20 | 1 | | | | | | | | | | 1 | | | | | | |
| 21 | | | | | 1 | | | | | | | | | | | | |
| $\begin{bmatrix} \dots & 22 \\ \dots & 22 \end{bmatrix}$ | 3 | | 1 | 1 | 1 | 1 | | 1 | 2 | 1 | 2 | 2 | | | 4 | 1 | 3 |
| 23 | | | | | | | | | | | | | 1 | | | | |
| 24 | 1 | | | | 1 | | | | | | | | 1 | | | 1 | |
| 5 25 | 11 | | 2 | 5 | 3 | 4 | . 4 | 5 | 6 | 4 | 3 | 5 | | 5 | 4 | 10 | |
| 26 | 4 | | | | 1 | , | | | | | | | 1 | | | | 1 |
| 27 | 1 | | | | 1 | | 2 | | | | 1 | | 1 | | 1 | | |
| 28 | 1 9 | | | 1 | 2 | | 1 | | | 1 | 3 | 1 | | | | | |
| 30 | 1 | | | 1 | | | 1 | 1 | 4 | 1 | 3 | | 1 | 1 | 2 | 1 | 2 |
| 31 | | | | | | | | | | | | | | | | | |
| 32 | 1.1 | 1.,,. | | | *** /* *** | | | | | | | 1 | | | | | |
| 33 | 5 | ļ | | 1 | 4 | 2 | 3 | 2 | 2 | 4 | | | 2 | 1 | 1 | 1 | 2 |
| 34 | | | | | | .1 | | | | | | | | | | | |
| 1 35 | 20 | 1 | | 2 | 2 | 3 | 1 | | 2 | 4 | 1 | 1 | 1 | | | | 3 |
| 1 27 | | 1 | | | 113 | | | | | | , , | | | | | | |
| 1 37 | 35 | 1 | | 2 | 5 | 6 | 2 | 5 | 6 | 4 | 3 | 6 | 5 | 3 | 4 | | 6 |
| 6 | 27 | | | 10 | 12 | 7 | 7 | 7 | 11 | 9 | 5 | 4 | 3 | 5 | 7 | | 5 |
| | | | | | | | | | | | | | | | | | |

VITAL STATISTICS. August, 1913, Infant Mortality.

| Detailed List Class Number. | Causes of Death. | Tor | GUST CALS, DER EAR. | Jnder I Day. | 2 Days. | 3 Days. | Days to 1 Week. | Weeks. | Weeks. | Weeks to I Month. | 2 Months. | 3 Months. | 6 Months. | 9 Months. | Months. | AG 2 WI AND POST | Ped. | Nonresidents. |
|--------------------------------|--------------------------------|-------|------------------------------|--------------|---------|---------|-----------------|--------|--------|-------------------|-----------|-----------|-----------|-----------|---------|------------------|--------|---------------|
| Detaile Nun | | 1913. | 1912. | Under | 1 to 2 | 2 to 3 | 3 Day | 1 to 2 | 2 to 3 | 3 Wee | 1 to 2 | 2 to 3 | 3 to 6 | 6 to 9 | 9 to 12 | Breast | Bottle | Nonre |
| | Total | 228 | 224 | 24 | 3 | . 5 | 14 | 11 | 7 | 6 | 15 | 12 | 45 | 48 | 38 | 51 | 120 | 27 |
| | Male | 134 | 117 | 15 | 3 | 3 | 5 | 7 | 4 | 2 | 12 | 5 | 31 | 26 | 21 | 25 | 76 | 15 |
| | Female | 94 | 107 | 9 | | 2 | 9 | 4 | 3 | 4 | 3 | 7 | 14 | 22 | 17 | 26 | 44 | 12 |
| | White | 218 | 217 | 22 | 2 | 5 | 14 | 11 | 7 | 6 | 15 | 12 | 43 | 44 | 37 | 49 | 115 | 27 |
| | Colored | 10 | . 7 | 2 | 1 | | | | | | | | 2 | 4 | 1 | 2 | 5 | |
| 1 | Typhoid fever | | | | | | | | | | | | | | | | | |
| 5 | Smallpox | | | | | | | | | | | | | | | | | |
| 6 | Measles | 1 | | | | | | | | | | | | 1 | | | 1 | |
| 7 | Scarlet fever | | | | | | | | | | | | | | | | | |
| 8 | Whooping cough | 6 | 3 | | | | | | | | | 1 | 1 | 2 | 2 | 3 | 3 | |
| 9 | Diphtheria and croup | 2 | 1 | | ' | | | | | | | | 1 | 1 | | 1 | 1 | |
| 10 | Influenza | | | | | | | | | | | | | | | | | |
| 14 | Dysentery | | | | | | | | | | | | | | | | | |
| 18 | Erysipelas | 2 | . 3 | | | | | | | 1 | | | 1 | | | 2 | | |
| 19 | Other epidemic diseases | | | | | | | | | | | | | | | | | |
| 20 | Pus-infection and septicemia, | | -1 | | | | | | | | | | | | | | | |
| 24 | Tetanus | | | | | | | | | | | | | | | | | |
| 28 | Tuberculosis of the lungs | 3 | | | | | | . , . | | | | | | 2 | 1 | 1 | 2 | 1 |
| 29 | Acute miliary tuberculosis | 1 | 1 | | | | | | | | | | | | 1 | | 1 | |
| 30 | Tuberculous meningitis | 2 | 2 | | | | | | | | | | 1 | 1 | | | 2 | |
| 31 35 | Other forms of tuberculosis | | 3 | | A ± * | | | | | | | | | | | | | |
| 36 | Rickets | | 1 | | | | | | | | | | | | | | | |
| 37 | Syphilis | 2 | 3 | | | | | | | . 1 | | | | 1 | | 1 | 1 | 1 |
| 38 | Gonococcus infection | | | | | | | | | | | | | | | | | |
| 61 | Simple meningitis | 1 | | | | | | | | i | | | 1 | | | 1 | | |
| 61a | Cerebro-spinal fever | | | | | | | | | | | | | | | | | |
| 63a | Acute poliomyelitis | | | | | | | | | | | | | | | | | |
| 71 | Convulsions | | | | ļ | | ļ | | | | | | | | | | | |
| 76 | Diseases of the ears | | | | | | | | | | | | | | | | | |
| 79 | Organic diseases of the heart, | | | | | | | | | | | | | | | | | · |
| 89 | Acute bronchitis | 2 | 2 | | | | | | | | | | | 1 | 1 | 2 | | |
| 91 | Broncho pneumonia | 13 | 10 | | | 2 | | 1 | | | 1 | | 2 | 6 | 1 | 2 | 8 | 1 |
| 92 | Pneumonia | 5 | 7 | | | | 1 | 1 | | | | | | 2 | 1 | 1 | 2 | |
| 93 | Pleurisy | | | | | | | | | | | | | | | | | |
| 103 | Other diseases of stomach | 1 | 1 | | | | | | | | | | 1 | | | | 1 | |
| 104 | Diarrhea and enteritis | 102 | 115 | | | | | 3 | 1 | | 8 | 6 | 31 | 28 | 25 | 21 | 78 | 9 |
| 108 | Appendicitis and typhlitis | | | | | | | | | | | | | | | | | |

August, 1913, Infant Mortality.—Concluded.

| Detailed List Class Number. | CAUSES OF DEATH. | Tot | DER EAR. | Under I Day. | to 2 Days. | to 3 Days. | Days to I Week. | to 2 Weeks. | to 3 Weeks. | Weeks to I Month. | to 2 Months. | to 3 Months. | to 6 Months. | to 9 Months. | to 12 Months. | 2 W | Bottle Fed. | Nonresidents. |
|--------------------------------|---|-----|-------------|--------------|------------|------------|-----------------|-------------|-------------|-------------------|--------------|--------------|--------------|--------------|---------------|-----|-------------|---------------|
| H | | | | 12 | - | 7 | 2 | - | 7 | 3 | - | 7 | 3 | 9 | 6 | Щ | Д | 2 |
| 109 | Hernias, intestinal obstruction, | 1 | 1 | | : | | | | | | | | | 1 | | 1 | | |
| 117 | Simple peritonitis | | | | | | | | | | | | | | | | | |
| 119 | Acute nephritis | 1 | 1 | | | | | | | | | | | | 1 | 1 | | 1 |
| 143 | Furuncle | | | | | | | | | | | | | | | | | |
| 144 | Acute abscess | | | | | | | | | | | | | | | | | |
| 145 | Other diseases of skin, etc | | | | | | | | | | | | | | | | | |
| 150a | Hydrocephalus | 1 | | | | | | | | 1 | | | | | | 1 | | |
| ь | Congenital malformations of | 5 | 13 | 1 | | 1 | 2 | | | | 1 | | | | | | 1 | 1 |
| c | heart. Other malformations | 7 | 5 | | | | 1 | | 1 | | 1 | 3 | 1 | | | 2 | 4 | 2 |
| 151a | Premature birth | 26 | 36 | 14 | 1 | 1 | 3 | 1 | 2 | 1 | 1 | 1 | 1 | | | 1 | 5 | 1 |
| b | Congenital debility | 15 | 10, | | 1 | | 3 | 2 | 1 | | 2 | 1 | 3 | | 2 | 3 | 6 | 1 |
| 152a | Injuries at birth | 8 | 10 | .8 | | | | | | | | | | | | | | 2 |
| ь | Other causes peculiar to early | 7 | 4 | 1 | | | 3 | 2 | 1 | | | | | | | 1 | | 3 |
| 167 | infancy. Burns (conflagrations ex- | | | | | | | | | | | | | | | | ! | |
| 168 | cepted). Absorption of deleterious gases, | 2 | , | | | | | | | 2 | | | | | | | 2 | 2 |
| 172 | Traumatism by fall | | | | | | | | | | | | | | | | | |
| 182) 184} | Homicide | | | | | | | | | | | | | | | | | |
| 187 | Ill-defined diseases | | 1 | | | | | | | | | | | | | | | |
| 109) | Other causes | 12 | | | 1 | 1 | 1 | | 1 | | 1 | | 1 | 2 | | | 2 | 4 |
| | Breast fed * | | | | | | | | 3 | 2 | | 4 | 10 | 15 | 17 | 51 | | 4 |
| | Bottle fed * | 120 | | | | | | | 4 | 4 | | 8 | 35 | | | | 120 | 14 |
| | Nonresidents | 27 | 37 | 3 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 5 | 4 | 4 | 4 | 14 | 27 |
| | | | | | | 1 | | | | | | | | | | | | |

^{*} Aged two weeks and over.

Additional Deaths for Other Months.

- May, 1913.—1 female; appendicitis and typhlitis; white; aged 60 years; widow; residence Ward 19; born in United States; birthplace of mother unknown.
- July, 1913.—1 male; homicide by other means; black; aged 49 years; married; residence Ward 11; born in United States; birthplace of mother unknown.
 - 1 male; homicide by other means; white; aged 26 years; married; residence ward 20; born in United States; mother born in United States.

DIVISION OF COMMUNICABLE DISEASES, AUGUST, 1913.

Medical Inspectors.

| Vew ca | ses visited: | | | | | | |
|--------|-----------------------------|---------------------|-------|-----|--|--|-----|
| Diph | theria: | | | | | | |
| a. | Isolation . | | | | | | 73 |
| b. | Diagnosis | , . | | | | | 3 |
| Scarle | et fever: | | | | | | |
| a. | Isolation . | | | | | | 25 |
| b. | Diagnosis | | | | | | 3 |
| c. | Release . | | | | | | 18 |
| Meas | les: | | | | | | |
| a. | Isolation . | | | | | | 6 |
| Ъ. | Diagnosis | | | | | | 1 |
| Vario | ella: | | | | | | |
| a. | Isolation . | | | | | | 1 |
| b. | Diagnosis | | | | | | 0 |
| Opht | h <mark>a</mark> lmia neona | torum . | | ٠. | | | 9 |
| Tube | rculosis . | | | | | | 41 |
| Typh | oid fever | | | | | | 58 |
| Who | oping cough | | | | | | 15 |
| | tile paralysis | | | | | | 8 |
| Polio | myelitis | | | | | | 8 |
| Anti- | typhoid inoc | ulation. | | | | | 9 |
| Deat | hs investigate | ed | | | | | 26 |
| Vacci | nations perfe | ormed . | | | | | 100 |
| Certi | ficate of vaco | eination | issue | d. | | | 20 |
| | | | | | | | |
| | | N | Nurse | es. | | | |
| New ca | ses visited: | | | | | | |
| Diph | theria | | | | | | 118 |
| - | et fever . | | | | | | 35 |
| Meas | les | | | | | | 66 |
| | ella | | | | | | 14 |
| | oid fever | | | | | | 58 |
| | oping cough | | | | | | 44 |
| | halmia neons | | | | | | 93 |
| | | | | | | | 10 |
| | oro-spinal me | | | | | | 1 |
| | theria cultur | | | | | | 79 |
| 1 | | | | | | | |

| old cases visited: | : | | | | | | | |
|--------------------|------|-------|-------|------|------|------|---|-----|
| Diphtheria . | | | | | | | , | 95 |
| Scarlet fever | | | | | | | | 123 |
| Measles . | | | | | | | | 57 |
| Varicella . | | | | | | | | 14 |
| Typhoid fever | | | | | | | | 44 |
| Whooping coug | gh | | | | , | | | 49 |
| Ophthalmia ne | onat | orun | ı. | | | | | 208 |
| Cerebro-spinal | men | ingit | is | | | | | 1 |
| Poliomyelitis | | | | • | | | | 10 |
| | | | | | | | | |
| | | I | Disin | fect | ions | | | |
| Diphtheria . | | | | | | | | 111 |
| Scarlet fever | | | | | | | | 34 |
| Tuberculosis | | | | | | | | 179 |
| | | | | | | | | |
| | | For | cible | Re | mov | als. | | |
| Tuberculosis | | | | | | | | 2 |
| Scarlet fever | | | | | | | | 0 |
| Diphtheria . | | | | | | | | 2 |
| Typhoid fever | | | | | | | | 1 |
| Cancer . | | | | | | | | 1 |
| | | | | | | | | - |

Cases Reported.

| Anterior Poliomyelitis. | Actinomycosis. | Asiatic Cholera. | Bubonic Plague. | Cerebro-spinal Meningitis. | Diphtheria. | Glanders. | Leprosy. | Malaria. | Malignant Pustule. | Measles. | Mumps. | Ophthalmia Neonatorum. |
|----------------------------|--------------------------------------|---|-----------------|-------------------------------|-------------|-----------|-----------------------------------|--|---|----------|--------|--|
| | | | | 1 | 8 | 1 | | | | 5 | | 2 |
| | | | | | | | | | | 9 | | 6 |
| | | | - | | 4 | | | | | 4 | 1. | 2 |
| | | | | | 3 | | | | | 4 | ,. | 3 |
| | | | | | 4 | | | | | | | 1 |
| | | | | | | | | | | 9 | 4. | 13 |
| 1 | | | | | 20 | | | | | | 1 | 2 |
| | | | | | | | | | | | | 17 |
| | | | | 1 | 1 | | | 1 | | | | 5 |
| 9 | | | | | | | | 1 | | - | | 1 |
| | | | | | 1 | | | | | 1 | 9 | 1 |
| | | | | | | | | | | | | 18 |
| 2 | | | | | | | | | | | | |
| | | | | • • • • | | | | | | | | 10 |
| | | • • • • | | | 1 | | | | | | 1 | 6 |
| | | | | | | | | | | 1 | | 2 |
| | | | | | 1 | | | | | | | |
| | | | | | 8 | | | | | 4 | 3 | 4 |
| | | | | | 7 | | | | | | | 7 |
| | | | | | 4 | | | | | 10 | | 2 |
| 1 | | | | | 5 | | | | | 4 | | 5 |
| 2 | | | | | 3 | | | | | 2 | 1. | 3 |
| | | | | | 2 | į | | | | 1 | 2 | 2 |
| 1 | | | | | 2 | | | | | 2 | 1 | 1 |
| | | | | | 5 | | | | | 1 | | 4 |
| | | | | | 4 | | | | | | | 1 |
| | | | | | 1 | | | | | | | 1 |
| 12 | | | | 2 | 122 | | | 1 | | 69 | 32 | 119 |
| | | | | | | | | | | | | |
| 1 | | | | 1 | 5 | | | | | | | |
| 12 | | | | 2 | 197 | | | 1 | | 60 | 39 | 110 |
| 13 | | | | 3 | 127 | | | 1 | | 09 | 32 | 119 |
| 3 | | | | 8 | 93 | | | 7 | | 118 | 9 | 84 |
| | 1 2 3 2 1 2 1 2 1 1 2 1 1 2 1 1 3 13 | 1 2 1 2 1 1 1 1 1 | 1 | | | | 1 8 4 4 | 1 8 4 <td> 1 8 4 <td> .</td><td> .</td><td> 1 8 5 4 4 1 9 4 4 </td></td> | 1 8 4 <td> .</td> <td> .</td> <td> 1 8 5 4 4 1 9 4 4 </td> | . | . | 1 8 5 4 4 1 9 4 4 |

Included in the nonresidents were the following cases brought to Boston

COMMUNICABLE DISEASES.

Cases Reported.

August, 1913.

| Scarlet Fever. | Smallpox. | Tetanus. | Trachoma. | Trichinosis. | Tuberculosis (Pulmonary and Miliary). | Tuberculosis (Other Forms). | Typhoid Fever. | Typhus Fever. | Varicella. | Whooping Cough. | Yellow Fever. | Wards. |
|----------------|-----------|----------|-----------|--------------|---|-----------------------------|----------------|---------------|------------|-----------------|---------------|----------------------------------|
| 6 | | | 1 | | 7 | 1 | 1 | | 1 | 1 | | |
| | | | | | 3 | | 2 | | 2 | 6 | | |
| 1: | · | | | | 2 | 1 | | | | 4 | | |
| | | | | | 5 | | 2 | | 1 | . 2 | | 4 |
| 1 | | | | | 2 | 1 | | | | 1 | | 5 |
| 1 | | | 1 | | 14 | . 2 | 5 | | 3 | 17 | | 6 |
| 2 | | | 2 | | 20 | | 1 | | | 5 | | 7 |
| 3 | | | | | 20 | 2 | 4 | | 1 | 18 | | 8 |
| 2 | | | 1 | | 21 | | 3 | | 1 | | | 9 |
| | | | | | 8. | | 1 | | 2 | 7 | | |
| | | *,* * * | | | 4 | | 1 | | | 3 | | |
| 1 | | | | | 11 | 1 | 2 | | | .7 | | |
| 4 | | | 1 | | 9 | 2 | 2 | | | 3 | | |
| 6 | | | | | 11 | | 2 | | 2 | | | |
| | | | | | 6 | 1 | 2 | | | 9 | | 15 |
| 1 | | | | | 9 | : 1` | 5 | | | 1 | | 16 |
| 3 | | | | | 7 | | 2 | | | 9 | | 17 |
| | | | | | 9 | 2 | 1 | | | 3 | | 18 |
| 2 | | | | | .8 | | 4 | | | 7 | | |
| 3 | | | | | 11 | 1 | 4 | | | • 1 | | 20 |
| | | | | | 8 | | 4 | | 1 | 1 | | 21 |
| | | | | | 4. | | 1 | | 1 | 3 | | 22 |
| 2 | | | | | 10 | | 1 | | | | | 23 |
| | | | | | 7 | | 4 | | 2 | 5 | | 24 |
| 1 | | | | | 8 | 1 | 2 | | | 2 | | 25 |
| 2 | | | ,. | | 3 | 1 | | | | | | |
| 41 | | | 6 | | 227 | 17 | 56 | | 17 | 115 | | Total |
| | | | | | | | | | | | | Unknown |
| 2 | | 1 | 4 | | 19 | 2 | 4 | | ; | 1 | | Nonresidents |
| 43 | | 1 | 10 | | 246 | 19 | 60 | | 17 | 116 | | Grand total |
| 29 | | | 3 | | 257 | 22 | 68 | | 22 | 107. | | Corresponding month last year |

for treatment: Diphtheria, 5; scarlet fever, 2; typhoid fever, 4.

DIVISION OF CHILD HYGIENE.—AUGUST, 1913.

Pre=Natal and Post=Natal Work.

| Number cases Number visits | 1. Pre | | | | 3 |
|---|-----------------------|---------------------------------|---------|--------|----------|
| Mothers attended as | follows: | , . | | | |
| Family physician . | . 2 | Hospital | | | 1 |
| | 0 D | | | | |
| | 2. Post | t-Natal. | | | |
| Number cases | . 2,413 | Number visits | * • | | 6,875 |
| Visits were made to on account of wrong ac | | | ies we | re not | seen, |
| Breast-fed Doctor | | | tle fed | | 215 |
| Defective conditions | noted as | s follows: | | | |
| Umbilical hernia | . 12 . 133 . 44 | Skin disease . Miscellaneous | | | 12 10 |

2. Physical Examination of Licensed Minors.

There were 253 girls and 260 boys between the ages of 14 and 16 years examined during the month. One hundred and twenty-one were found to be without defects and 392 were found to be defective, as follows:

| Hearing . Eyesight Defective nasal breathing Hypertrophied tonsils | $\begin{bmatrix}2\\64\\5\\12\end{bmatrix}$ | Cardiac disease Orthopedic defects Skin Miscellaneous | • | • | 6 3 5 1 |
|---|--|--|---|---|------------------|
| Defective teeth | 359 | . 27220002000000000000000000000000000000 | | | |

BACTERIOLOGICAL LABORATORY.

| BACTERIOLOGICA | L LABORATORY. |
|--|---|
| DIPHTHERIA: | GONORRHEA: |
| *Paratyphoids, Shiga bacillus, spec | imen for T. B., malaria, G-U. T. B. |
| Samples examined, milk from stores | 598 18. 19 19 19 19 19 19 19 19 19 19 19 19 19 1 |
| | |
| Cattle inspected. 325 Calves inspected. 464 Sheep inspected. — Swine inspected. 3,635 | Cattle condemned (1 whole) 328 lbs. Cattle condemned (parts of 52)1,338 lbs. Calves condemned (2 whole) 62 lbs. Sheep condemned (2 whole) 62 lbs. Swine condemned (2 whole) 529 lbs. Swine condemned (parts of 147), 1,813 lbs. |
| | s.— ARTICLES CONDEMNED. |
| Weats. Veal (tainted) 115 lbs. Veal not stamped 201 lbs. Veal (immature) 32 lbs. Mutton (tainted) — lbs. Beef (tainted) 99 lbs. Pork (tainted) 23 lbs. Poultry (tainted) 166 lbs. Frogs legs (tainted) 22 lbs. | Miscellaneous. - Ibs. Fish (tainted) 500 lbs. Apples (decayed) - bush. Nut meats (decayed) 24 lbs. Beans (decayed) 1 bush. |
| SANITARY INSPE | CTION DIVISION |
| | 2,186 11,083 580 6,730 6,730 17 214 1 111 3 2 2 1 |
| QUADA | NTINE. |
| Vessels inspected at quarantine | 68 4,903 |

MONTHLY METEOROLOGICAL SUMMARY

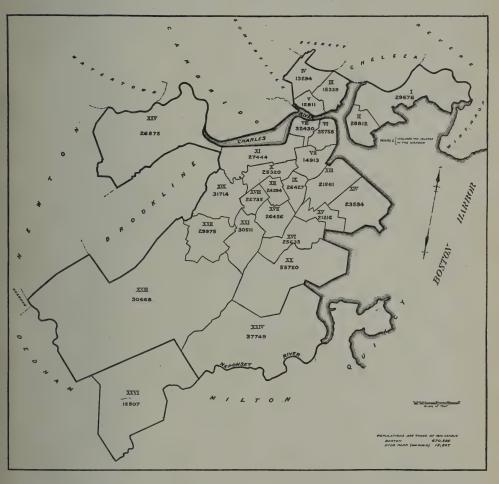
Taken at Weather Bureau, Boston, August, 1913.

| | | EMPERATI DEGREE | s | midity. | oitation. | s Sun- | | WIND. | |
|--------|----------|--------------------|-------|-------------------|---------------------|-----------------------------|--|----------------------------------|--------------------------|
| Day. | Maximum. | Minimum. | Mean. | Relative Humidity | Daily Precipitation | Actual Hours Sun- shine. | Average Hourly Velocity. (Miles.) | Maximum Velocity. (Miles.) | Prevailing Direction. |
| 1 | 75 | 62 | 68 | 84 | 0 | 4.2 | 6.7 | 14 | ES. W. |
| 2 | 88 | 69 | 78 | 70 | .37 | 5.8 | 7.1 | 14 | w. |
| 3 | 89 | 66 | 78 | 58 | 0 | 10.6 | 7.0 | 15 | s. w., w. |
| 4 | 72 | 61 | 66 | 82. | .21 | 4.4 | 6.4 | 13 | E. |
| 5 | 80 | . 59 | 70 | 64 | 0 | 12.6 | 8.1 | 17 | N. W. |
| 6 | 82 | 63 | 72 | 74 | .0 | 8.1 | 9.7 | 18 | s. w. |
| 7 | 76 - | 62 | 69 | 85 | T | 11.0 | 6.9 | 15 | E. |
| 8 | . 76 | 58 | 67 | 85 | 0 | 4.3 | 7.5 | 16 | E. |
| 9 | 85 | 65 | 75 | 78 | 0 | 9.0 | 13.9 | 24 | s. w. |
| 10 | 88 | 66 | 77 | 70 | .04 | 7.0 | 10.2 | 19 | w. |
| 11 | 72 | 57 | 64 | 56 | 0 | 8.5 | 10.5 | 20 | N.W. |
| 12 | 75 | 56 | 66 | 49 | 0 | 12.3 | 7.7 | 13 | S. E. |
| 13 | 75 | 60 | 68 | 80 | .18 | 5.9 | 7.9 | 18 | s. w. |
| 14 | 70 | 60 | 65 | 80 | 0 | 10.8 | 5.7 | 13 | E. |
| 15 | 77 - | 58 | 68 | 75 | 0 | 9.0 | 7.0 | . 17 | s. w. |
| 16 | 89 | 62 | 76 | 79 | 0 | 12.3 | 8.7 | 20 | s. w. |
| 17 | 96 | 68 | 82 | 74 | 0 | 10.9 | 7.1 | 13 | s. w. |
| 18 | 91 | 71 | 81 | 79 | т | 7.1 | 6.8 | 16 | s. w. |
| 19 | 74 | 63 | 68 | 66 | 0 | 12.2 | 11.2 | 21 | N. E. |
| 20 | 69 | 58 | 64 | 58 | 0 | 13.7 | 9.0 | 17 | E |
| 21 | 70 | 58 | 64 | 60 | 0 | 13.6 | 8.2 | 22 | w. |
| 22 | 76 | 57 | 66 | 68 | 0 | 11.4 | 12.5 | 24 | s. w. |
| 23 | 84 | . 68 | 76 | 74 | .34 | 9.0 | 13.1 | 26 | s. w. |
| 24 | 82 | 63 | 72 | 64 | 0 | 13.2 | 8.3 | 16 | w. |
| 25 | 75 | 58 | 66 | 38 | 0 | 13.5 | 9.2 | 17 | N. W. |
| 26 | 80 | 56 | 68 | 74 | 0 . | 13.4 | 10.8 | 26 | s. w. |
| 27 | 81 | 67 | 74 | 82 | .80 | 4.1 | 10.6 | 37 | s. w. |
| 28 | 74 | 64 | 69 | 70 | 0 | 10.4 | 9.2 | 14 | N. W. |
| 29 | 72 | 66 | 69 | 95 | . 52 | 0 | 10.5 | 24 | S. |
| 30 | 79 | . 66 | 72 | 89 | .40 | 6.5 | 9.7 | 19 | s. w. |
| 31 | 84 | 63 | 74 | 69 | 0 | 11.9 | 6.7 | 12 | w. |
| Totals | | <u>.</u> | 7_ | manag | 2.86 | 286.7 | | | |
| Means | 79.2 | 62.3 | 70.7 | 71.9 | 0.09 | 67% | 8.8 | 27th | s. w. |

Latitude 42 degrees 21 minutes.

Longitude 71 degrees 4 minutes.

BOSTON WARD MAP.





MONTHLY BULLETIN

OF THE

Rec'd HEALTH DEPARTMENT 20 1918

OF THE

CITY OF BOSTON



| | | | | | PAGE |
|--------------------------------|--|--|----|--|-------|
| Vital Statistics for September | | | | | . 199 |
| Monthly Reports | | | ٠, | | . 210 |

CITY OF BOSTON PRINTING DEPARTMENT 1913

ORGANIZATION OF THE HEALTH DEPARTMENT

FRANCIS X. MAHONEY, M. D., Chairman. P. H. MULLOWNEY, M. D. V.

F. H. SLACK, M. D., Secretary.



MONTHLY BULLETIN

OF THE

HEALTH DEPARTMENT OF THE CITY OF BOSTON.

All communications relating to this publication should be addressed to BULLETIN OF THE HEALTH DEPARTMENT, 100 Summer St., Boston.

Vol. 2.

BOSTON, SEPTEMBER, 1913.

No. 9.

SUMMARY OF VITAL STATISTICS FOR THE MONTH OF SEPTEMBER, 1913.

Boston had 885 deaths in September, 1913, compared with 896 for September of last year, and a death rate of 14.64 against 15.14 for September, 1912. Deaths of nonresidents numbered 148 against 137 a year ago. Deducting deaths of nonresidents the corrected death rate for September, 1913, was 12.19 against 12.83 for September, 1912.

Of deaths from reportable diseases the principal decreases were: Tuberculosis (all forms), 28; and measles, 3; and the principal increases were diphtheria and croup, 9; whooping cough, 5; and typhoid fever, 2.

Other important differences were as follows:

| September, 1913, decreases | com | par | ed wi | ith S | epte | mber | , 191 | 12: | | |
|----------------------------|------|------|--------|-------|-------|-------|-------|-----|--|----|
| "Other diseases". | | | | | | | | | | 38 |
| Diarrhea and enteritis | | | | | | | | | | 13 |
| Violent deaths . • | | | | | | | ٠. | | | 7 |
| September, 1913, increases | com | pare | ed wi | th Se | epter | nber, | , 191 | 2: | | |
| Organic heart diseases, | Bri | ght' | s dise | ease | and: | neph | ritis | | | 32 |
| Cancer | | | | | | | | | | 23 |
| Apoplexy and softening | g of | the | brain | n | | | | | | 17 |
| Puerperal septicemia | | | | | | | | | | 7 |

Ward 11 again had the lowest death rate, 6.33, and Ward 4 the highest, 27.32. There were 17 less deaths under one year than in September, 1912, 20 less under 5 years, and 47 more over 60.

Total deaths under one year numbered 218, which is 36 less than the average number for September for the preceding five years. Of these 218 deaths, 91 were due to diarrhea and

enteritis, 74 to premature birth, congenital debility, malformations and other diseases peculiar to early infancy; 17 to pneumonia and broncho-pneumonia; 17 to reportable diseases and 19 to other causes.

Of deaths under one year Wards 1 and 6 had the largest numbers, 11 each. One hundred and sixty-nine were over two weeks old and of these 139 were bottle-fed.

Total deaths for the first nine months of 1913 numbered 8,942 against 8,771 for the corresponding period of last year, giving death rates respectively of 16.26 and 16.27.

Total deaths under 1 year for the same period numbered 1,645 this year against 1,683 last year.

GENERAL STATISTICS. Population, Ward Area, Persons to Acre, and Rates.

| | sus. | | la- | | STILLBIRTHS EXCLUDED. | | | | | |
|----------|---------------------|-------------------------|--|--|--|--|---|--|--|--|
| | Land Area in Acres. | Population, 1910 Census | Persons to Acre of Land. (Using Census Population.) | Population, Estimated, July 1, 1913.† | Death Rates, 1912. (Population, Estimated.)† | Birth Rates, 1911. (Population, Estimated.)† | Death Rates, 1912, of Children Under One Year, Per 1,000 Births, 1911. | | | |
| * Boston | 27,674 | 686,092 | 24.8 | 735,399 | 16.17 | 25.99 | 119.35 | | | |
| Wards 1 | 1,188 | 29,676 | 24.9 | 32,439 | 13,05 | 24.90 | 104.58 | | | |
| 2 | 357 | 28,812 | 80.7 | 30,676 | 17.11 | 33.37 | 120.81 | | | |
| 3 | 332 | 15,339 | 46.2 | 15,667 | 15.29 | 26.84 | 106.02 | | | |
| 4 | 301 | 13,294 | 44.1 | 13,808 | 18.02 | 25.50 | 148.26 | | | |
| 5, | 207 | 12,811 | -61.9 | . 12,914 | 16.69 | 24.28 | 118.59 | | | |
| 6 | 293 | 35,758 | 122.0 | 39,492 | 16.18 | 48.81 | 100.33 | | | |
| 7 | 394 | 14,913 | 37.9 | 14,483 | 20.05 | 26.57 | 94.39 | | | |
| 8 | 171 | 32,430 | 189.6. | 33,479 | 12.07 | 33.21 | 70.64 | | | |
| 9 | 186 | 26,427 | 141.5 | 29,214 | 15.13 | 27.40 | 106.24 | | | |
| 10 | 394 | 25,320 | 64.3 | 26,277 | 11.86 | 10.51 | 114.81 | | | |
| 11 | 663 | 27,444 | 41.4 | 30,738 | 9.69 | 14.22 | 63.73 | | | |
| 12 | 235 | 24,294 | 103.4 | 25,948 | 14.98 | 14.57 | 181.82 | | | |
| 13 | 611 | 21,561 | 35.3 | 21,501 | 17.24 | 31.11 | 117.91 | | | |
| 14 | 405 | 23,584 | 58.2 | 24,527 | 14.44 | 24.14 | 115.92 | | | |
| 15 | 277 | 21,216 | 76.6 | 21,803 | 14.80 | 20.25 | 119.82 | | | |
| 16 | 564 | 25,633 | 45.6 | 28,033 | 12.75 | 24.23 | 110.42 | | | |
| 17 | 460 | 26,426 | 57.4 | 27,793 | 15.49 | 25.65 | 117.22 | | | |
| 18 | 220 | 22,735 | 103.3 | 23,133 | 17.08 | 25.08 | 99.30 | | | |
| 19 | 760 | 31,714 | 41.7 | 33,332 | 13.77 | 22.77 | 111.41 | | | |
| 20 | 1,716 | 55,720 | 32.5 | 64,723 | 12.97 | 20.33 | ‡158.90 | | | |
| 21 | 640 | 30,511 | 20.5 | 33,085 | 13.54 | 17.53 | 85.14 | | | |
| 22 | 760 | 29,975 | 38.1 | 31,403 | 12.50 | 20.55 | 100.48 | | | |
| 23 | 7,617 | 30,668 | 4.0 | 33,423 | 12.13 | 19.93 | 94.94 | | | |
| 24 | 3,252 | 37,749 | 11.6 | 41,695 | 12.63 | 23.73 | 103.11 | | | |
| 25 | 2,740 | 26,575 | 9.7 | 29,661 | | 24.73 | 96.21 | | | |
| 26 | 2,869 | 15,507 | 5.4 | 16,152 | 12.29 | 29.59 | 107.30 | | | |

^{*}Hyde Park was annexed to Boston January 1, 1912, and became Ward 26. Under "Boston," in the above table, Hyde Park statistics are included.

[†]Population estimated by arithmetical method, using the censuses of 1905 and 1910. ‡An infant asylum is located in this ward.

September. General Summary.

| | | | | | 1913. | 1912 |
|-------------------------|-----|--|--|--|---------|---------|
| Total deaths | • . | | | | 885 | 896 |
| Population, estimated* | | | | | 735,399 | 720,031 |
| 70 13 1 1 1 1 1 1 1 1 1 | | | | | | 15.14 |
| Deaths of nonresidents | | | | | 148 | 137 |
| Corrected death rate† | | | | | 12.19 | 12.83 |

^{*} Population estimated by arithmetical method, using the censuses of 1905 and 1910.

† Nonresidents not included.

September, 1913. Statement of Deaths.

| Total number (stillbirths ex- | NATIVITY |
|--|--|
| cluded) | |
| ciudea) | Ireland |
| | England and Wales 17 |
| Sex. | Scotland |
| Males | 478 Germany |
| Females | 407 Canada |
| | Italy |
| Condition. | Russia and Poland 21 |
| | 449 Sweden and Norway 12 |
| | France |
| | Other countries 8 |
| Widowed | 160 Unknown 6 |
| Divorced | |
| Divorced | 1 Normania an Managan |
| | NATIVITY OF MOTHERS. |
| Unknown | NATIVITY OF MOTHERS. United States 261 |
| Unknown | Nativity of Mothers. United States |
| Unknown | NATIVITY OF MOTHERS. United States |
| Unknown | NATIVITY OF MOTHERS. United States |
| Color. White | NATIVITY OF MOTHERS. United States |
| Unknown | Nativity of Mothers. |
| COLOR. White | Nativity of Mothers. |
| COLOR. White | NATIVITY OF MOTHERS. United States |
| Color. White Black (negro or mixed) Chinese Deaths of children: Under one year | NATIVITY OF MOTHERS. United States |
| Color. White Black (negro or mixed) Chinese Deaths of children: Under one year Under two years | NATIVITY OF MOTHERS. United States |
| Color. White Black (negro or mixed) Chinese Deaths of children: Under one year Under two years | NATIVITY OF MOTHERS. |

| nber. | | Тот. | ALS. | Year. | | | | | Years. | rg. | Years, | Years. |
|--------------------------------|--|-------|--------|------------|----------|----------|----------|----------|------------|---------------|-------------|-------------|
| Abridged List Class Number. | CAUSES OF DEATH. | 1913. | 1912. | Under 1 Ye | I Year. | 2 Years. | 3 Years. | 4 Years. | Under 5 Ye | 5 to 9 Years. | 10 to 14 Ye | 15 to 19 Ye |
| | Total, all causes $\begin{cases} 1913 \\ 1912 \end{cases}$ | 885 | 896 | 218 235 | 31 29 | 8 | 4 12 | 6 3 | 267 287 | 16 | 15 8 | 16 15 |
| 1 | Typhoid fever | 11 | 9 | | | | | | | | 2 | . 2 |
| 3 | Malarial fever | | . 1 | | | | | | | | | |
| 4 | Smallpox | | | | | | | | | | | |
| 5 | Measles | | 3 | | | | | | | • • • • • | | |
| 6 | Scarlet fever | . 1 | 1 | 1 | | | | | 1 | | | |
| . 7 | Whooping cough | 12 | . 7 | 9 | 1 | 1 | 1 | | 12 | | | |
| 8 | Diphtheria and croup | 13 | 4 | 1 | 5 | | 1 | 1 | 8 | 3 | 1 | |
| 9 | Influenza | | | | | | | | | | | |
| 11 | Cholera nostras | | | | | | | | | | | |
| 12 | Other epidemic diseases | 4 | 5 | 2 | | | | | | | | |
| 13 | Tuberculosis of the lungs | 61 | 89 | 3 | 1 | | | 1 | 5 | 1 - | | 2 |
| 14 | Tuberculous meningitis | 5 | 2 | 1 | 2 | | | | 3 | 1 | | • • • • • |
| 15 | Other forms of tuberculosis | 6 | 9 | | 1 | | | | - 1 | | | 1 |
| 16 | Cancer, malignant tumor | 80 | 57 | | | | | | | | | • • • • • |
| 17 17a | Simple meningitis (except cerebrospinal meningitis). Cerebro-spinal meningitis | 4 3 | 5 2 | 2 | 1 | | | | 3 | 1 | 1 | |
| 18 | Apoplexy and softening of the brain, | 49 | 32 | 1 | | | | | 1 | | | |
| 19 | Organic heart diseases | 111 | 98 | 1 | | | | 1. | 2 | | 1 | . 1 |
| 20 | Acute bronchitis | 3 | 5 | 2 | | | | | 2 | | | |
| 21 | Chronic bronchitis | 2 | 1 | | | | | 1 | 1 | | | |
| 22 | Pneumonia (except broncho-pneu- | 46 | 48 | 9 | 2 | 1 | | | 12 | | | 1 |
| 22a | monia). Broncho-pneumonia | 22 | 18 | 8 | 3 | 1 | 1 | 1 | 14 | | | |
| 23 | Other respiratory diseases | 1 | 4 | 1 | | | | | 1 | | | |
| 24 | Diseases of the stomach (cancer ex- | 7 | 12 | 2 | | 1 | | | 3 | | | |
| 25 | cepted). Diarrhea and enteritis (under two | 101 | 114 | 91 | 10 | , | | | 101 | | | |
| 26 | years). Appendicitis and typhlitis | 9 | 12 | | | | | | | | 3 | |
| 27 | Hernia, intestinal obstruction | , 9 | 6 | 1 | | 1 | | | 2 | | | |
| 28 | Cirrhosis of liver | 6 | 9 | | | | | | | | | |
| 29 | Bright's disease and nephritis | 57 | 38 | | 1 | | | | 1 | | | |
| 30 | Diseases of women (not cancer) | 5 | 3 | | | | | | | | | |
| 31 | Puerperal septicemia | 9 | 2 | | | | | | | | | 2 |
| 32 | Other puerperal diseases | 1 | 8 | | | | | | | | | |
| 33 | Congenital debility and malforma- | 57 | 60 | 57 | | | | | 57 | | | |
| 34 | tions. Old age | 6 | 2 | | | | | | | | | |
| 35 | Violent deaths | 54 | 61 | | 2 | 2 | 1 | | 5 | 1 | 5 | 2 |
| 36 | Suicide | 7 | 7 | | | | | | | | | |
| 37 | Other diseases | 123 | 161 | 25 | 2 | 1 | | 1 | 29 | 1 | 2 | 5 |
| 38 | Ill-defined causes | | | | | | | | | | | |

| ears. | Years. | Years. | Years. | ears. | ears. | Years. | Years. | Years. | ears. | ears. | ears. | ears. | ears. | pq | | Sex. | ist mber. |
|-----------------|------------|-------------|------------|-----------------|-----------------|------------|------------|------------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------------|------------|------------|--------------------------------|
| 20 to 24 Years. | 25 to 29 Y | 30 to 34 Y | 35 to 39 Y | 40 to 44 Years. | 45 to 49 Years. | 50 to 54 Y | 55 to 59 Y | 60 to 64 Y | 65 to 69 Years. | 70 to 74 Years. | 75 to 79 Years. | 80 to 84 Years. | 85 to 89 Years. | 90 Years and over. | Males. | Females. | Abridged List Class Number. |
| 21 38 | 34 29 | 22 49 | 44 61 | 53 47 | 49 | 47 57 | 56 40 | 64 54 | 57 40 | 48 41 | 44 36 | 23 24 | 9 11 | 8 | 478 483 | 407 413 | |
| 5 | | | | | | 1 | 1 | | | | | | | | 7 | 4 | 1 |
| | | | | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | 4 |
| | | | | | | | | | | | | | | | | | 5 |
| | | | | | | | | | | | | | | | | 1 | 6 |
| | | | | | | | | | | | | | | | 5 | 7 | 7 |
| | | | | 1 | | | | | | | | | | | 7 | 6 | 8 |
| •••• | | | | | | | | | | | | | | | | | 9 |
| | | | | | | | | | | | | | | | | | 11 |
| | | | | | | 1 | | | | | 1 | | | | 1 | 3 | 12 |
| 5 | 6 | 3 | 9 | 7 | 7 | 5 | 3 | 4 | 3 | | .1 | | | | 35 | 26 | 13 |
| | | | | | | | | | | 1 | | | | | | 5 | 14 |
| | | 1 | 1 | | 1 | | | | 1 | | | | | | 4 | 2 | 15 |
| | 3 | | 5 | 8 | 12 | 8 | 10 | 11 | 8 | 7 | 6 | 1 | | 1 | 38 | 42 | 16 |
| | | | | | | | | | | | 1 | | | | 3 | - 1 | 17 |
| ***** | | | | | | | | | | | | | | | 2 | 1 | 17a |
| | | 2 | 2 | 2 | 1 | 4 | 6 | 4 | 6 | 8 | 7 | 4 | 1 | 1 | 18 | 31 | 18 |
| 4 | 3 | 3 | 5 | 7 | 7 | 7 | 13 | 15 | 15 | 10 | 9 | 5 | 3 | 1 | 54 | 57 | 19 |
| | | | | | 1 | | | | | | | | | | 3 | | 20 |
| •••• | | , | | | | | | | | | | | 1 | | | 2 | 21 |
| | | 2 | 1 | 3 | 5 | 2 | 6 | . 7 | 2 | 1 | 1 | 1 | 1 | 1 | 32 | 14 | 22 |
| • • • • • | | 1 | | | 1 | 1 | 2 | | | | 2 | | | 1 | .13 | 9 | 22a |
| **** | | | | | | | | | | | | | | | | 1 | 23 |
| • • • • • | | | 1 | | 2 | | | | 1 | | | | | | .4 | 3 | 24 |
| •••• | | | | | | | | | | | | | | | 55 | 46 | 25 |
| •••• | 3 | • • • • • • | 1 | | | 1 | | 1 | | | | | | | 6 | 3 | 26 |
| | 1 | | | | | 2 | 3 | | | 1 | | | | | 6 | 3 | 27 |
| 1 | | | | 1 | 1 | | 1 | 1 | 1 | } | | | | | 4 | 29 | 28 |
| • • • • • | 3 | 2 | 3 | 3 | 1 | 7 | 4 | 7 | 7 | 5 | 7 | 4 | 1 | | 28 | 5 | 30 |
| | | | 1 | 4 | | | | 1 | | | | | | | | _ | |
| 1 | 1 | | 4 | 1 | | | | | | | | | | | | 9 | 31 |
| | | | 1 | | | | | | | | | | | | 95 | 1 | 32 |
| ••••• | | \$4 ∮ | | | | | | | | 1 | | | | | 35 | 22 | 33 |
| 1 | | | 4 | | | | | | 7 | 1 | 1 | | | 1 | 1 | 5 | 34 |
| 1 | 6 | 1 | 4 | 8 | 5 | 2 | 1 | 1 | 1 | 6 | 2 | 2 | | | 40 | 14 | 35 |
| А | 2 | 1 | | 1 | | | 1 | 1 | 1 | | | | | 1 | 3 | 49 | 36 |
| 4 | 5 | 4 | 6 | 11 | 3 | 6 | 5 | 11 | 11 | 8 | 6 | 3 | 2 | 1 | 74 | | 37 |
| | | 8 | | | | | | | | | | | | | | | 38 |

| Abridged List Class Number. | CAUSES OF DEATH. | on. | WARD RESIDENCE. | | | | | | | | | | | | | |
|-----------------------------|--|----------------|-----------------|----------------|----------------|-----------------------|----------------|----------------|----------------|---------------|----------------|---------------|--------------|--|--|--|
| Abric Class | | Boston. | 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | 11. | | | |
| | All causes | 885 | 35 | 41 | 17 | 31 | 12 | 38 | 23 | 25 | 26 | 17 | 16 | | | |
| | Rates per 1,000 popula- 1913 tion | 14.64 15.14 | 13.13 18.11 | 16.26 14.15 | 13.20 16.42 | $\frac{27.32}{16.94}$ | 11.31 16.06 | 11.71 10.16 | 19.32 25.80 | 9.09 10.64 | 10.83 11.16 | 7.87 13.11 | 6.33 4.10 | | | |
| 1 | Typhoid fever | 11 | , | | | | | 2 | | | | | | | | |
| 3 | Malarial fever | | | | | | | | | | | | | | | |
| 4 | Smallpox | , | | | | | | | | | | | | | | |
| 5 | Measles | | | | | | | | | | | | | | | |
| 6 | Scarlet fever | 1 | | | | | | | | | | | | | | |
| 7 | Whooping cough | 12 | | 2 | . 1 | 1 | | | | | | | | | | |
| 8 | Diphtheria and croup | 13 | 2 | 2 | | | | | | | | | | | | |
| 9 | Influenza | | | | | | | | | | | | | | | |
| 12 | Other epidemic diseases | 4 | • • • • • | 1 | | | 1 | | | | | | | | | |
| 13 | Tuberculosis of the lungs | | 4 | 3 | 2 | 2 | | 4 | 5 | 1 | 5 | | ` 1 | | | |
| 14 | Tuberculous meningitis | | | | | | | | | | | 1 | | | | |
| 15 | Other forms of tuberculosis | 6 | | | 1. | | 1 | | | | | | | | | |
| 16 | Cancer, malignant tumor | 80 | 3 | 5 | | 1 | 3 | 2 | 1 | 1 | 7 | 5 | 3 | | | |
| 17 17a | Simple meningitis (except cerebro-spinal meningitis). Cerebro-spinal meningitis | 3 | | 1 | | | | 1 | | | | | | | | |
| 18 | Apoplexy and softening of the | 49 | • • • • • | 2 | 3 | 4 | | 1 2 | 2 | | | 1 | 1 | | | |
| 19 | brain. Organic heart diseases | 111 | 3 | 8 | 2 | 3 | | 3 | 4 | 1 2 | 3 | 4 | 5 | | | |
| 20 | Acute bronchitis | 3 | 1 | | | 9 | | 9 | 4 | 4 | 0 | * | J | | | |
| 21 | Chronic bronchitis | 2 | | | | | | 1 | | | | | | | | |
| 22 | Pneumonia (except broncho- | | 2 | 2 | | 1 | 2 | 2 | 2 | 3 | 2 | 1 | 3 | | | |
| 22a | pneumonia). Broncho-pneumonia | 22 | | 2 | | | 2 | 4 | | 9 | | 1 | J | | | |
| 23 | Other respiratory diseases | 1 | | | | | - | 1 | | | | | | | | |
| 24 | Diseases of the stomach (cancer | 7 | | | | | | | 1 | 1 | | | | | | |
| 25 | excepted). Diarrhea and enteritis (under | 101 | 3 | 2 | 3 | 6 | 1 | 3 | 2 | 3 | 3 | | 1 | | | |
| 26 | two years). Appendicitis and typhlitis | 9 | | | | | | | | | | | | | | |
| 27 | Hernia, intestinal obstruction, | 9 | 1 | 1 | | | | | | | | | | | | |
| 28 | Cirrhosis of liver | 6 | 1 | | | | | 1 | 1 | | | | | | | |
| 29 | Bright's disease and nephritis | 57 | | 3 | 1 | 1 | 1 | 4 | | 2 | 1 | | . , | | | |
| 30 | Diseases of women (not cancer), | 5 | | | | | | 1 | | 1 | | | | | | |
| 31 | Puerperal septicemia | 1 | | 1 | | | | | | | | | | | | |
| 32 | Other puerperal diseases | 9 | | | | 1 | | 1 | | | | | | | | |
| 33 34 | Congenital debility and malformations. Old age | 57 6 | 6 | 1 | 2 | 2 | 1 | 2 | 1 | 4 | 2 | 2 | 1 | | | |
| 35 | Violent deaths | 54 | 2 | 1 | 1 | 4 | | 2 | | 3 | 1 | | 1 | | | |
| 36 | Suicide | 7 | | | | - | | | | | 1 | | 1 | | | |
| 37 | Other diseases | 123 | 6 | 4 | 1 | 3 | | 2 | 4 | 3 | 2 | 2 | | | | |
| 38 | Ill defined causes | | | | | | | | | | | | | | | |
| | Total deaths under one year | 218 | 11 | 9 | 7 | 6 | 4 | 11 | 3 | 7 | 5 | 4 | 2 | | | |

September, 1913.

| | | | | | | | | | | | | | | pten | | , 17 | | |
|----------------|-----------------------|----------------|-----------------------|----------------|----------------|----------------|-----------------|--------------|------------------|--------------|--------------|-----------------------|---------------|----------------|--------------------------|---------------|----------|--------------------------------|
| | | | | | | WARD | Resi | DENCE | • . | | | | | | Boston, Ward Unknown. | Nonresidents. | Unknown. | Abridged List Class Number. |
| 12. | 13. | 14. | 15. | 16. | 17. | 18. | 19. | 20. | 21. | 22. | 23. | 24. | 25. | 26. | Bost | Non | Unkı | Abrid Class |
| 33 | 35 | 25 | 22 | 24 | 31 | 25 | 27 | 46 | 33 | 25 | 24 | 46 | 33 | 21 | | 148 | 6 | |
| 15.47 13.87 | $\frac{19.81}{24.31}$ | 12.40 15.06 | $\frac{12.28}{12.38}$ | 10.42 13.38 | 13.57 18.23 | 13.15 14.81 | $9.86 \\ 12.97$ | 8.65 8.45 | $12.14 \\ 10.55$ | 9.69 9.83 | 8.74 9.71 | $\frac{13.42}{10.22}$ | 13.54 9.33 | 15.82 10.68 | | | | |
| • • • • • | 1 | 1 | | | | 1 | . 2 | | | | | | | | | 1 | | 1 |
| • • • • • | | | | | | | | | | | | | • • • • • | | | | | 3 |
| • • • • • | | | | | | | | | | | | | | | | | | 4 |
| • • • • • | | | | • • • • • | | | | | | | | | | | | | | 5 |
| 2 | | | 2 | 1 | 1 | | | | | | | • • • • • | | | | 3 | | 7 |
| | 2 | | 1 | 1 | | | | | 1 | | | | | 2 | | 2 | | 8 |
| | | | | | | | | | | | | | | | | | | 9 |
| | | | | 1 | | | | | | | | | | | | 1 | | 12 |
| • • • • • | 3 | | 1 | 1 | 4 | 3 | 3 | 2 | 3 | 1 | 2 | 3 | | | | . 7 | 1 | 13 |
| | | | | | 1 | | | | | | | | 1 | | | 2 | ٠,٠ | 14 |
| | | | | | | | | 1 | | | | , | | | | 3 | | 15 |
| 3 | 1 | 1 | 1 | 4 | 3 | 2 | 2 | 3 | 6 | 2 | 1 | 3 | . 4 | 1 | | 12 | | 16 |
| | | | | | | | | | | | | | | | | | | 170 |
| 1 | 1 | | 4 | 1 | 2 | 1 | 2 | 7 | 2 | . 1 | 2 | 4 | | 2 | | 3 | | 18 |
| 5 | 2 | 4 | 2 | 2 | 3 | 3 | 4 | 6 | . 6 | 5 | 3 | 8. | 6 | 4 | | 10 | 1 | 19 |
| | 1 | 1 | | | | | | | | | | | | | | | | 20 |
| • • • • • | | | | | | | | | | 1 | | | | | | | | 21 |
| 2 | 3 | 3 | | 1 | | 1 | 4 | 3 | 2 | | 1 | 2 | | 1 | | 3 | | 22 |
| 1 | | 1 | 2 | | 1 | 2. | 1 | | | 1 | 1 | 3 | | | | -3 | | 220 |
| 1 | 1 | | | 1 | 1 | | | | | | | | | | | 2 | | 24 |
| 1 | 4 | 2 | 3 | 2 | 3 | 3 | | 2 | 2 | 2 | 2 | 4 | 4 | 4 | | 32 | 4 | 25 |
| | 1 | | | | | | 1 | 2 | 1 | | | | 1 | | | 3 | | 26 |
| 1 | | | | | 1 | | | 1 | 1 | 1 | | 1 | | | | 1 | | 27 |
| • • • • • | 1 | | | | | 1 | | | | | 1 | | | | | | | 28 |
| 3 | 1 | 1 | 2 | | 1 | | 1 | 6 | 4 | 1 | 4 | 2 | 7 | 2 | | 9 | | 29 |
| | | | | | | | | | 1 | | | 1 | | | | 1 | | 30 |
| | | | | | 1 | 1 | | 1 | | 1 | | | 1 | | | 2 | | |
| 2 | 4 | 2 | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 3 | | 1 | 2 | 1 | | 9 | | ١ |
| 1 | | | | | | | | | | 1 | | | 1 | | | | | ١ |
| 4 | | 2 | 1 | 2 | 3 | 3 | 3 | 3 | 1 | | 1 | 4 | | 2 | | 10 | | 35 |
| | | | | 1 | | | | | | | 2 | | | | | 4 | | 36 |
| 5 | 8 | 7 | 2 | 4 | 3 | 3 | 3 | 8 | 2 | 5 | . 3 | 10 | 6 | 2 | | | | 1 |
| | - | | | - | | | | | - | | | | | | - | | - | 38 |
| 8 | 10 | 8 | 4 | 7 | 9 | 5 | 2 | 5 | 2 | 5 | 3 | 9 | 8 | 6 | ···· | 54 | 4 | |

VITAL STATISTICS. September, 1913, Infant Mortality.

| | | 1 . | | | | | | | | | | | | | | | | = |
|--------------------------------|--------------------------------|-------|-------------|-------------|-------|---------|-----------------|--------|----------|------------|---------|---------|-----------|---------|---------|--------|---------------------|--------------|
| Nass. | | SEPT | EMBER | | | | eek. | | | Month. | | | | | m | A WI | ED EEKS OVER. | |
| Detailed List Class Number. | Causes of Death. | UN | DER EAR. | ay. | på | Ď, | Days to 1 Week. | ks. | ks. | 11 | Months. | Months. | 6 Months. | Months. | Months. | | | ats. |
| stailed Li | CAUSES OF DEATH. | | DATE. | Under 1 Day | Days. | 3 Days. | s to | Weeks. | 3 Weeks. | Weeks to I | Mor | Mor | Mor | Mor | Me | Fed. | Bottle Fed. | Nonresidents |
| staile Nun | | 1012 | 1010 | nder | to 2 | to 3 | Day | to 2 | to 3 | Wee. | to 2 | to 3 | to 6 | to 9 | to 12 | Breast | ottle | onre |
| Ď | | 1913. | 1912. | Ġ. | - | 6 | 3 | - | 7 | 3 | - | 7 | 63 | 0 | ٥ | B | ğ | z |
| | Total | 218 | 235 | 22 | 6 | 5 | 4 | 12 | 8 | 11 | 20 | 13 | 56 | 39 | 22 | 30 | 139 | 54 |
| | Male | 133 | 124 | 15 | 4 | 3 | 3 | 8 | 6 | 7 | 14 | 7 | 36 | 22 | 8 | 21 | 79 | 36 |
| | Female | 85 | 111 | 7 | 2 | 2 | 1 | 4 | 2 | 4 | 6 | 6 | 20 | 17 | 14 | 9 | 60 | 18 |
| | White | 214 | 230 | 22 | 6 | .5 | 4 | 12 | 8 | 11 | 20 | 13 | 53 | 39 | 21 | 29 | 136 | 54 |
| | Colored | • 4 | 5 | | | | | | | | | | 3 | | 1 | 1 | 3 | |
| 1 | Typhoid fever | | | | | | | | | | | | | | | ••••• | | |
| 5 | Smallpox | ,. | | | | | | | | | | | | ••• | | | | |
| 6 | Measles | | | | | | | | | | | | | | | | | |
| 7 | Scarlet fever | 1 | | | | | | | | | | | | | 1 | | 1 | |
| 8 | Whooping cough | 9 | 5 | | | | | | | | 1 | | 2 | 2 | 4 | 1 | 8 | 3 |
| 9 | Diphtheria and croup | 1 | | | | | ٠ | | | 1 | | | | | | | 1 | 1 |
| 10 | Influenza | | | | | | | | | | | | | | | | | |
| 14 | Dysentery | 1 | 1 | | | | | | | | | | 1 | | | 1 | | |
| 18 | Erysipelas | | 1 | | | | | | | | | | | | | | | |
| 19 | Other epidemic diseases | 1 | | | | | | 1 | | | | | | | | | | |
| 20 | Pus-infection and septicemia, | 5 | | | | | | | 1 | | ••• | | 3 | 1 | | | . 5 | 3 |
| 24 | Tetanus | | | | | | | | | | | | | | | | | |
| 28 | Tuberculosis of the lungs | | 1 | | | | | | | | 1 | | | 1 | 1 | | ` 3 | |
| 29 | Acute miliary tuberculosis | | | | | | | | | | | | | | | | | |
| 30 | Tuberculous meningitis | 1 | | | | | | • • • | | | | | | 1 | | 1 | | |
| 31 35} | Other forms of tuberculosis | | 2 | | | | | • • • | | | | | | | | | | |
| 36 | Rickets | 1 | 1 | | | | | • • • | | | | | 1 | | | | 1 | |
| 37 | Syphilis | | | | | | | | | | | | | | | | • • • • • | |
| 38 | Gonococcus infection | | | | | : | | | | | | | | | | | | |
| 61 | Simple meningitis | 2 | | | | | | • • • | | -1. | | | | 2 | · · · | | 2 | |
| 61a | Cerebro-spinal fever | 1 | 1 | | | | | | | | | | 1 | | | | 1 | |
| 63a | Acute poliomyelitis | | | | | | | | | | | | | | | | | |
| 71 | Convulsions | | 2 | | | | | | | | | | | | | | | |
| 76 | Diseases of the ears | 2 | | | | | | | 1 | | | | | 1 | | | 2 | 1 |
| 79 | Organic diseases of the heart, | 1 | 1 | | | | | • • • | | | | | | 1 | | | 1 | |
| 89 | Acute bronchitis | 2 | | | | | | | | | | | 1 | 1 | | | 2 | |
| 91 | Broncho-pneumonia | 8 | | | | | | • • • | | | | 2 | 1 | 2 | 2 | 3 | 5 | |
| 92 | Pneumonia | 9 | | | | • • • | • • • | • • • | 1 | | • • • | | 4 | 1 | 3 | 3 | 6 | |
| 93 | Pleurisy | 1 | 1 | • • • | • • • | • • • | • • • • | • • • | • • • | | | • • • | | 1 | | | 1 | |
| 103 | Other diseases of stomach | 2 | | | | • • • | • • • | | • • • | . , . | | | 1 | • • • | | 1. | 1 | 1 |
| 104 | Diarrhea and enteritis | . 91 | . 99 | | • • • | • • • | ٠ | 1 | 1 | 3 | 13 | 6 | 35 | 22 | 10 | 15 | 75 | 31 |
| 108 | Appendicitis and typhlitis | | • • • • • | ••• | • • • | • • • | • • • | ••• | | • • • | • • • | • • • | • • • | • • • | • • • • | | • • • • • | • • • |

September, 1913, Infant Mortality.—Concluded.

| Detailed List Class Number. | CAUSES OF DEATH. | Un 1 Y | MBER ALS, DER EAR. | Under 1 Day. | I to 2 Days. | 2 to 3 Days. | 3 Days to I Week. | I to 2 Weeks. | 2 to 3 Weeks. | 3 Weeks to 1 Month. | I to 2 Months. | 2 to 3 Months. | 3 to 6 Months. | 6 to 9 Months. | 9 to 12 Months. | 2 W | Bottle Fed. | Nonresidents. |
|--------------------------------|---|-----------|--------------------|--------------|--------------|--------------|-------------------|---------------|---------------|---------------------|----------------|----------------|----------------|----------------|-----------------|-----|-------------|---------------|
| 109 | Hernias, intestinal obstruction, | 1 | 1 | | | | | | | | | | | 1 | | | 1 | |
| 117 | Simple peritonitis | | | | | | | | | | | | | | | | | |
| 119 | Acute nephritis | | | | | | | | | | | | | | | | | |
| 143 | Furuncle | | | | | | | | | | | | | | | | | |
| 144 | Acute abscess | | 1 | | | | | | | | | | | | | | | |
| 145 | Other diseases of skin, etc | | 1 | | | | | | | | | | | | | | | |
| 150a | Hydrocephalus | | 1 | | | | | | | | | | | | | | | |
| ь | Congenital malformations of | 4 | 9 | | 1 | | | | | ° 1 | | 2 | | | | 1 | 2 | |
| c | heart. Other malformations | 5 | 5 | | | 1 | | 2 | | 2 | | | | | | 1 | . 1 | |
| 151a | Premature birth | 30 | 23 | 12 | 4 | 2 | 2 | 5 | 1 | 2 | | 1 | 1 | | | | - 5 | 5 |
| ь | Congenital debility | 18 | 22 | 1 | | | | 1 | 3 | | 3 | 2 | 5 | 2 | 1 | 2 | 14 | 4 |
| 152a | Injuries at birth | 10 | 10 | 4 | 1 | 1 | 2 | 2 | | | | | | | | | | 1 |
| ь | Other causes peculiar to early | 7 | 7 | 5 | | 1 | | | | | 1 | | | | | | . 1 | 1 |
| 167 | infancy. Burns (conflagrations ex- | | | | | | | | | | | | | | | | | |
| 168 | cepted). Absorption of deleterious gases, | | 3 | | | | | | | | | | | | | | | |
| 172 | Traumatism by fall | | | | | | | | | | | | | | | | | |
| 182) 184 | Homicide | | | | | | | | | | | | | | | | | |
| 187 189 | Ill-defined diseases | | | | | | | | | | | | | | | | | |
| | Other causes | | | | | | | | | | | | | | | | | |
| | Breast fed * | 30 | 49 | | | | | | 2 | 2 | 2 | 3 | 10 | 6 | . 5 | 30 | | 4 |
| | Bottle fed * | 139 | 134 | | | | | | 6 | 9 | 18 | 10 | 46 | 33 | 17 | | 139 | 46 |
| | Nonresidents | 54 | 40 | 3 | | | 1 | | 1 | 4 | 9 | 4 | 17 | 11 | 4 | 4 | 46 | 54 |

^{*} Aged two weeks and over.

Additional Deaths for Other Months.

July, 1913.—1 male; organic diseases of the heart; white; aged 50 years; condition unknown; residence Ward

- July, 1913.—1 male; organic diseases of the heart; white; aged 50 years; condition unknown; residence Ward 2; born in Ireland; mother born in Ireland.
 Aug., 1913.—1 male; tuberculosis of lungs; black; aged 50 years; single; residence Ward 11; born in United States; birthplace of mother unknown.
 1 male; organic diseases of the heart; white; aged 28 years; condition unknown; residence Ward 6; born in Ireland; mother born in Ireland.
 1 female; organic diseases of the heart; white; aged 85 years; single; residence Ward 21; born in United States; mother born in United States.
 1 female; organic diseases of the heart; white; aged 48 years; single; residence Ward 20; born in United States; mother born in United States.
 1 male; organic diseases of the heart; white; aged 64 years; divorced; nonresident; born in United States; mother born in United States.

 - mother born in United States.
 - 1 male; broncho-pneumonia; white; aged 41 years; condition unknown; residence unknown; born in England or Wales; mother born in England or Wales.

DIVISION OF COMMUNICABLE DISEASES, SEPTEMBER, 1913.

Medical Inspectors.

| V | ew cas | ses visited: | | | | | | | |
|---|---------|---------------------------|-------|-------|-----|------|--|-----|-----|
| | Dipht | heria: | | | | | | | |
| | a. | Isolation | | | | | | | 113 |
| | b. | Diagnosis | | | | | | | 2 |
| | Scarle | t fever: | | | | | | | |
| | | Isolation | | | | | | | 20 |
| | b. | Diagnosis | | | | | | | 4 |
| | c. | Release | | | | | | | 20 |
| | Typh | oid fever: | | | | | | | |
| | a. | Isolation | | | | | | | 130 |
| | Measl | es: | | | | | | | |
| | a. | Isolation | | | | | | | 10 |
| | b. | Diagnosis | | | | | | | 1 |
| | Polior | Diagnosis nyelitis | | | | | | | 2 |
| | Cereb | ro-spinal r | nenin | gitis | 3 | | | | 2 |
| | Infan | tile paraly | sis | | | | | | 2 |
| | Varice | | | | | | | | |
| | a. | Isolation | | | | | | | . 2 |
| | b. | Isolation Diagnosis | | | 1. | | | | 3 |
| | | n <mark>a</mark> lmia neo | nator | um | | | | | 9 |
| | Tuber | culosis | | | | | | | 17 |
| | Infect | ious diarrl | nea | | | | | • , | 1 |
| | Death | ns investig | ated | | | | | | 18 |
| | | nations pe | | | | | | | 628 |
| | Certif | icates gran | ted | | | | | | 297 |
| | Anti-t | yphoid in | ocula | tions | 3 | | | | 50 |
| | | | | | | | | | |
| | | | | | Nur | ses. | | | |
| N | lew cas | ses visited: | | | | | | | |
| | Dipht | heria . | | | | | | | 178 |
| | Scarle | et fever | | | | | | | 60 |
| | Typh | oid fever | | | | | | | 109 |
| | Whoo | ping coug | h | | | | | | 35 |
| | Ophtl | nalmia neo | nator | rum | | | | | 121 |
| | Meas | les . | | | | | | | 42 |
| | | | | | | | | | 31 |
| | Mala | ria . | | | | | | • | 3 |
| | | | | | | | | | |

| New cases visited: | | | | | | | | | |
|------------------------------|---------|-------|-------|------|------|----|---|-----|-----|
| Cerebro-spinal m | nening | itis | | | | ٠, | | | (|
| Poliomyelitis | | | | | | | | | ř |
| Trachoma . | | | | | | | | | į |
| Old cases visited: | | | | | | | | | |
| Diphtheria . | | | | | | | | | 278 |
| Scarlet fever | | | | | | | | ٠ | 199 |
| Typhoid fever | | | | | | | | | 24 |
| Poliomyelitis Whooping cough | | | ٠. | | | | | | 23 |
| Whooping cough | ١. | | | | | | | | 28 |
| Ophthalmia neor | natoru | m. | | ۰ | | | | | 289 |
| Measles . | | | | | | | | | 36 |
| Varicella . | | | | 2 | | | | | 18 |
| Cerebro-spinal m | nening | itis | | | | | | . • | 6 |
| Diphtheria cultu | res tal | ken | | | | | | ٠ | 162 |
| | Fo | rcibl | e Re | emov | als. | | | | |
| Diphtheria . | • . • | | | | | | | , . | |
| Scarlet fever | | | | | | | | |] |
| | | | | | | | | | |
| | | Disi | nfect | ions | | | | | |
| Dinhthonia | | | | | | | | | |
| Diphtheria . | | | | | | | | | |
| Scarlet fever Tuberculosis | • | | • | | • • | • | • | ٠ | |
| Tubercurosis . | | | • | • | • | • | | • | 716 |

Cases Reported.

| September, 1 | | | | | | | | | | | | | |
|-------------------------------|----------------------------|----------------|------------------|-----------------|-------------------------------|-------------|-----------|----------|----------|-----------------------|----------|--------|---------------------------|
| Wards. | Anterior Poliomyelitis. | Actinomycosis. | Asiatic Cholera. | Bubonic Plague. | Cerebro-spinal Meningitis. | Diphtheria. | Glanders. | Leprosy. | Malaria. | Malignant Pustule. | Measles. | Mumps. | Ophthalmia Neonatorum. |
| 1; | | | | | | 8 | | | 1 | | 3 | 1 | 2 |
| 2 | | | | | 2 | 9 | | | | | 4 | 2 | 15 |
| 3 | | | | | | 5 | | | | | | | 2 |
| 4 | | | | | 1 | 2 | | | | | 1 | | 2 |
| 5 | | | | | | 6 | | | | | | 1 | 1 |
| 6 | 1 | | | | 2 | 31 | | | 1 | | 8 | 2 | 13 |
| 7 | | | | | | | | | | | | | 3 |
| 8 | 2 | | | | | 20 | | | | | 3 | 23 | 17 |
| 9 | 2 | | | | 1 | 5 | | | 1 | | 8 | | 4 |
| 10 | | | | | 1 | 1 | | | | | | | 1 |
| 11 | | | | | 1 | 3 | | | | | 1 | 1 | 3 |
| 12 | | | | | | 5 | | | | | 1 | 3 | 14 |
| 13., | | | | | | 8 | | | | | 1 | | 15 |
| 14 | | | | | | 6 | | | | | | | 1 |
| 15 | 1 | | | | | 10 | | | | | 1 | | 2 |
| 16 | | | | | 1 | 6 | | | 1 | | 2 | 2 | 2 |
| 17 | | | | | | 3 | | | | | 2 | 3 | 7 |
| 18 | | | | | | . 6 | | | | | 2 | | 2 |
| 19 | | | | | 1 | 9 | | | | | 2 | | 8 |
| 20 | | | | | | 11 | | | | | 4 | 3 | 5 |
| 21 | | | | | | 6 | | | | | | , | 6 |
| 22 | 1 | | | | | 1 | | | | | 1 | | 4 |
| 23 | | | | | | 5 | | | 1 | | | | 1 |
| 24 | | | | | | 8 | | | | | 1 | 1 | 1 |
| 25 | 2 | | | | | 6 | | | | | | 1 | 5 |
| 26 | | | | | | 4 | | | | | 1 | | 1 |
| Total | 9 | | | | 10 | 184 | | | 5 | | 46 | 33 | 137 |
| Unknown | | | | | | | | | | | | | |
| Nonresidents | 1 | | | | | 10 | | | 2 | | | | 4 |
| Grand total | 10 | | | | 10 | 194 | | | 7 | | 46 | 33 | 141 |
| Corresponding month last year | 3 | | | | 7 | 100 | | | 6 | | 70 | 8 | 78 |

Included in the nonresidents were the following cases brought to Boston

COMMUNICABLE DISEASES.

Cases Reported.

September, 1913.

| Scarlet Fever. | Smallpox. | Tetanus. | Trachoma. | Trichinosis. | Tuberculosis (Pulmonary and Miliary). | Tuberculosis (Other Forms). | Typhoid Fever. | Typhus Fever. | Varicella. | Whooping Cough. | Yellow Fever. | Wards. |
|----------------|-----------|----------|-----------|--------------|---|-----------------------------|----------------|---------------|------------|-----------------|---------------|--------------------------------|
| 4 | | | 0 | | 7 | | 1 | | | | | 1 |
| 9 | | | 2 | | 13 | 3 | 8 | | . 1 | 5 | | |
| 1 | | | | | 3 | 1 | 9 | | | .5 | | |
| | 1 | | | | . 4 | : | 20 | | | 3 | | 4 |
| 1, | | | | | 6 | 2 | 2 | | 2 | | | 5 |
| 1 | | | 1 | | 12 | 6 | -18 | | 3 | 4 | | 6 |
| | | | 1 | | 10 | | | | 1 | | | 7 |
| 8 | | | 1 | | 19 | 1 | 4 | | . 5 | 5 | | 8 |
| * 2 | | | | : | 16 | | 13 | | | | | 9 |
| | | | | | 7 | 1 | 2` | | | | | |
| 1 | | | | • • • • | 2 | | | | 2 | 1 | | 11 |
| 2 | **** | | | | 9 | •••• | 3 | * > * 4 | 1 | | | 12 |
| 3 | | | | | 7 | . 2 | 2 | | | 1 | | |
| 2 | | | | | 2 | ,. | 2 | | 5 | | | 14 |
| | | | | | 5 | | 2 | | | 2 | | 15 |
| 2 | | | | | 7 | | 4 | | 1 | 2 | | 16 |
| 2 | ••• | * * * * | | | 13 | 1 | 5 | | 5 | | | 17 |
| 3 | | **** | | | 11 | | 2 | | | | | 18 |
| 5 | 2 | | | | 10 | | 1 | | | 1 | | 19 |
| 4 | | | | | 15 | 1 | 7 | | 7 | | | 20 |
| 3) | | | •••• | | 11 | | 4 | | 2 | | | 21 |
| 3 | | | | | 9 | | . 4 | | 1 | 2 | | 22 |
| 5 | | | | | 7 | 1 | | | 2 | | | |
| '2 | | | | | 10 | | 3 | | 1 | | | 24 |
| , 1, | | | | | 5 | 1 | 3 | | 1 | 1 | | 25 |
| | • • • • | | • • • • | • • • • | 1 | | • • • • | | | | • • • • | 26 |
| 64 | | | 5 | | 221 | 20 | 119 | | 40 | 32 | | Total |
| | | | | | | | 1 | | | | | |
| 9 | | | 4 | | 11 | 2 | 5 | | | | | Nonresidents |
| 73 | | | 9 | | 232 | 22 | 125 | | 40 | 32 | | Grand total |
| 31 | 1 | 1 | 1 | | 238 | .16 | 66 | | 31 | 87 | | Corresponding month last year. |

for treatment: Diphtheria, 10; scarlet fever, 9; typhoid fever, 5.

DIVISION OF CHILD HYGIENE.—SEPTEMBER, 1913. Pre=Natal and Post=Natal Work.

| Pre=natai and Post=natai work. |
|---|
| 1. Pre-Natal. |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| Mothers attended as follows: |
| Family physician $3 \mid \text{Midwife} \cdot \cdot \cdot \cdot \cdot \cdot \cdot 1$ Hospital $1 \mid \text{Midwife} \cdot |
| 2. Post-Natal. |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| Visits were made to 75 homes, where babies were not seen, on account of wrong address, removal, etc. |
| Defective conditions noted as follows: |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| Medical Inspection of Schools. |
| Number inspections made |
| There were 3,906 pupils excluded from school during the month, for the following causes: |
| Diphtheria 4 Syphilis 1 Scarlet fever 4 Pediculosis 3,194 Measles 4 Acute or purulent conjunctivitis 17 Chicken pox 6 tivitis 15 Whooping cough 8 Ringworm 15 Mumps 8 Scabies 41 Pulmonary tuberculosis 4 Impetigo 62 Acute tonsilitis 34 Favus 2 Influenza 1 Molluscum Contagiosum 4 Gonorrhea 2 Miscellaneous 495 |
| There were 11,347 cases of noncontagious disease found, subdivided as follows: |
| Diseases of oral and respiratory tract 1,669 Diseases of the ear 38 Diseases of the eye 282 Diseases of the skin 635 Dental caries 3,369 Miscellaneous 5,354 |
| Physical Examination of Licensed Minors. |
| There were 546 girls and 770 boys between the ages of 14 and 16 years examined during the month. Three hundred and eighty-four were found without defects and 932 with defects, |

Nervous disease . Orthopedic defects Eyesight
Defective nasal breathing
Hypertrophied tonsils 92 Skin Defective teeth
Pulmonary disease
Cardiac disease Malnutrition . 773 6 Miscellaneous 19

154

as follows:

Eyesight

BACTERIOLOGICAL LABORATORY.

| 2.101 | Licionodio | | |
|---|---|---|---------------------------------|
| DIPHTHERIA: | | GONORRHEA: | |
| Positive for diagnosis | 144 | Positive | $\frac{32}{125}$ |
| Positive for release | 105 573 | Negative Unsatisfactory | 0 → 157 |
| Negative for diagnosis. Negative for release "No growth" cultures | 226 | GONORRHEAL OPHTHALMIA: | |
| "No growth" cultures. | 8—1,056 | Positive | 0 |
| TUBERCULOSIS: | . 101 | Negative Unsatisfactory | 62 0→ 62 |
| Positive Negative | | OTHER EXAMINATIONS: | 0 02 |
| Unsatisfactory | 0 404 | *Positive | 9 |
| Турноір: | | Negative | 48 |
| Positive | 64 246 | Unsatisfactory BACTERIOLOGICAL MILK | 0 57 |
| Atypical | | EXAMINATIONS | 586 586 |
| Unsatisfactory | 3- 333 | Bacteriological ice cream | |
| GLANDERS: | 0 | examinations | 23 23 |
| Positive Negative | 0 | inations | 2 2 |
| Unsatisfactory | 0 0 | | |
| | | Total | 2,680 |
| *K-L Vir. malaria, G-U | . T. B., paratypho | oids, typhoid feces and urine, le | prosy. |
| INSDEC | TION OF M | ILK, VINEGAR, ETC. | |
| | | | |
| | | tatute Requirements. | |
| Samples examined, milk fr | om stores | | 410 |
| " " milk ir | ought in hy citize | ns | 579 42 |
| " milk to | r bacteriological e | xamination | 586 |
| " bacteri | ological ice cream | | 23 |
| " " vinegai | and cheese | | 48 |
| " " ice cre | am | | 37 |
| | | | |
| Total samples | | | 1,729 |
| Cattle inspected | 570 | Cattle condemned (2 whole) Cattle condemned (98 parts) Calves condemned. Sheep condemned. Swine condemned (3 whole). Swine condemned (315 parts) | - Ibs. |
| | | | |
| INSPECTION OF | PROVISION | IS.— ARTICLES COND | EMNED. |
| Meats. | | Miscellaneou | 1S. |
| Veal (immature) Veal (tainted) | 326 lbs. | Fish (tainted) | 45 lbs. |
| Veal (tainted) | 180 lbs. | Eggs (decayed). Misc. fruit (decayed). Misc. vegetables (decayed). Postatoes (decayed). | 49 doz. |
| Mutton (tainted) Beef (tainted) | | Misc. vegetables (decayed). | 17 bush. |
| Pork (tainted) | 222 lbs. | | |
| Poultry (tainted) | 330 lbs. | Peaches (decayed) | 249 bush |
| SANI | TARV INSPE | CTION DIVISION. | |
| New reports | | erion bivision. | 1.059 |
| Reinspections | | | 1,958 *7,332 |
| New tenement house repo- | rts | | 791 |
| Nuisances reported | | | 6,630 |
| Court ages | | ••••• | 405 |
| Fines | | | \$134 |
| Tenement vacated | | | |
| Milk applications approve | d | | 95 |
| Stable permit hearings | | | |
| Stable permit refused | | | |
| Dump permits granted | | | 3 |
| | | • | |
| * During this month the lishments and bakeries | le duty of inspecti vas transferred fr | ng milk stores, restaurants, ice om the Sanitary Inspection I ccount for the decreased numb | cream estab- Division to the |
| Food Inspection Division | which fact will a | ccount for the decreased numb | er of reinspec- |
| tions during September. | | | |

QUARANTINE.

MONTHLY METEOROLOGICAL SUMMARY.

Taken at Weather Bureau, Boston, September, 1913.

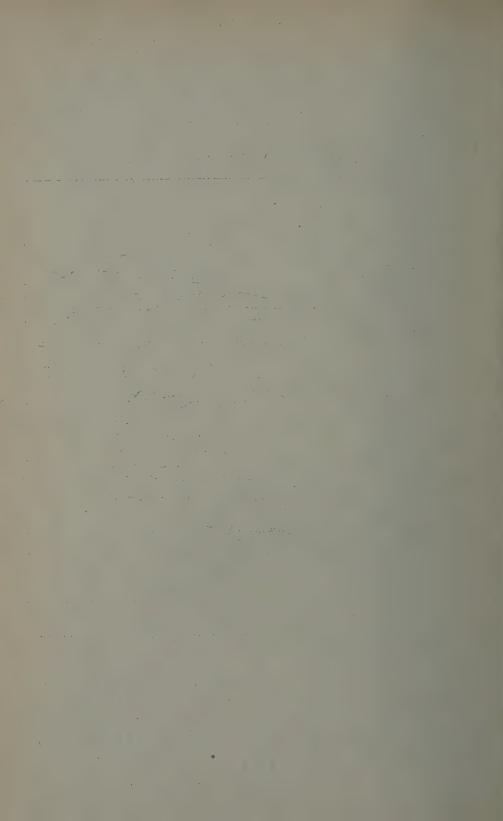
| | | EMPERATI DEGREE | S | midity. | itation. | Sun- | Wind. | | | | |
|--------|----------|--------------------|-------|-------------------|---------------------|------------------------|--|----------------------------------|--------------------------|--|--|
| DAY. | Maximum. | Minimum. | Mean. | Relative Humidity | Daily Precipitation | Actual Hours shine. | Average Hourly Velocity. (Miles.) | Maximum Velocity. (Miles.) | Prevailing Direction. | | |
| 1 | 84 | 66 | 75 | 77 | 0 | 10.3 | 5.8 | 13 | s. w. | | |
| 2 | 83 | 67 | 75 | .72 | 0 | 12.3 | 6.2 | 14 | s. w. | | |
| 3 | 86 | 66 | 76 | 80 | 0 | 8.4 | 11.8 | 20 | s. w. | | |
| 4 | 73 | 57 | 65 | 90 | .05 | 0 | 7.8 | 17 | N. E. | | |
| 5 | 62 | 55 | 58 | 89 | .70 | 6.1 | 5.8 | 12 | E. | | |
| 6 | 70 | 54 | 62 | 68 | 0 | 11.8 | 6.7 | 12 | E., W. | | |
| 7 | 75 | 58 | 66 | 78 | Т | 8.3 | .7.5 | 15 | s. w. | | |
| 8 | 86 | 65 | 76 | 73 | .25 | 7.4 | 9.0 | 24 | N.W. | | |
| 9 | 65 | 50 | 58 | 50 | 0 | 11.0 | 12.4 | 23 | N.W. | | |
| 10 | 60 | 46 | 53 | 52 | 0 | 12.7 | 10.7 | 18 | N. | | |
| 11 | 60 | 47 | - 54 | 68 | T | 6.5 | 7.6 | 13 | S. E. | | |
| 12 | 65 | 54 | 60 | 74 | 0 | 3.4 | 7.3 | 15 | S. E. | | |
| 13 | 73 | 52 | 62 | 68 | .12 | 8.8 | 12.7 | 26 | w. | | |
| 14 | 64 | 46 | 55 | 52 | 0 | 12.4 | 10.2 | 17 | w. | | |
| 15, | 59 | 41 | 50 | 55 | 0 | 12.5 | 7.5 | 11 | N. W. | | |
| 16 | 65 | 46 | 56 | 64 | 0 | 12.4 | 7.2 | 12 | E., S. W. | | |
| 17 | 74 | 52 | 63 | 79 | T | 5.0 | 10.8 | 19 | s. w. | | |
| 18 | 77 | 57 | 67 | 90 | .45 | 2.7 | 8.0 | 17 | s. w. | | |
| 19 | 58 | 55 | 56 | -94 | .37 | 0 | 10.5 | 18 | N. E. | | |
| 20 | 59 | 56 | 58 | 100 | .10 | 0 | 10.7 | 18 | N. E. | | |
| 21 | 65 | 58 | 62 | 100 | .08 | 0 | 11.4 | 18 | E. | | |
| 22 | 77 | 64 | 70 | 92 | .39 | 1.7 | 18.8 | 35 | S. | | |
| 23 | 71 | 54 | 62 | 64 | 0 | 11.9 | 9.4 | 15 | w. | | |
| 24 | 65 | 50 | 58 | 64 | 0 | 10.7 | 7.6 | 13 | , N. W. | | |
| 25 | 69 | 51 | 60 | 64 | 0 | 9.0 | 6.4 | 13 | N. W. | | |
| 26 | 78 | 56 | 67 | 88 | 0 | 6.8 | 10.3 | 16 | S. W. | | |
| 27 | 68 | , 52 | 60 | 54 | 0 | 10.6 | 11.8 | 21 | N. W. | | |
| 28 | 70 | 46 | 58 | 50 | 0 | 11.9 | 9.4 | 19 | s. w. | | |
| 29 | 76 | 53 | 64 | 68 | 0 | 8.5 | 11.0 | 20 | s. w. | | |
| 30 | 61 | 50 | 56 | 78 | 0 | 1.3 | 10.0 | 21 | N. E. | | |
| 31 | | | | | | | | | | | |
| Totals | - | | | | 2.51 | 224.4 | | | | | |
| Means | 69.9 | 54.1 | 62.1 | 73.2 | 0.08 | 60% | 9.4 | 22d | s. w. | | |

Latitude 42 degrees 21 minutes.

Longitude 71 degrees 4 minutes.

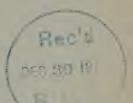
BOSTON WARD MAP.





MONTHLY BULLETIN

OF THE



HEALTH DEPARTMENT

OF THE

CITY OF BOSTON



| | | | | | | | PAGE |
|------------------------------|-----|------|-------|-----|--|--|-------|
| An Important Décision of the | Sup | reme | e Cot | ırt | | | . 221 |
| Vital Statistics for October | | | | | | | . 231 |
| Monthly Reports | | | | | | | . 242 |

CITY OF BOSTON PRINTING DEPARTMENT 1913

ORGANIZATION OF THE HEALTH DEPARTMENT

FRANCIS X. MAHONEY, M. D., Chairman. P. H. MULLOWNEY, M. D. V.

F. H. SLACK, M. D., Secretary.



MONTHLY BULLETIN

OF THE

HEALTH DEPARTMENT OF THE CITY OF BOSTON.

All communications relating to this publication should be addressed to BULLETIN OF THE HEALTH DEPARTMENT, 100 Summer St., Boston.

Vol. 2.

Boston, October, 1913.

No. 10.

AN IMPORTANT DECISION OF THE SUPREME COURT.

BY ALEXANDER BURR, M. D. V.,

Chief of Division of Food Inspection, Boston Health Department.

The Legislature of 1912 passed a law which prohibited the bringing into Massachusetts of the carcass of any neat cattle, sheep or swine slaughtered without this state unless inspected at the time of slaughter by an official inspector and unless stamped or branded.

The Boston Board of Health upon the enactment of this law notified all receivers of dressed meats from other states and also the authorities in all adjoining states.

The first question to come up on the enforcement of this act was whether or not the carcass of an animal slaughtered by a farmer upon his own premises without inspection could be prohibited from sale in Massachusetts when it was permitted by an Act of Congress to enter into interstate trade without such inspection or stamping. The first case of violation of this law was brought to court by the Boston Board of Health and was carried to the Supreme Court. The decision which is given below is of importance to all boards of health.

February 26, 1913.

COMMONWEALTH v. MOORE.

Meat Inspection — State Laws — Effect of Federal Laws — Interstate Commerce.

Rugg, C. J.— The defendant is charged with a violation of Statute of 1912, chapter 428, section 1, which is as follows:

Carcasses of neat cattle, sheep or swine slaughtered without the Commonwealth shall be deemed unfit for human food and shall not be sold or offered for sale unless they have been inspected at the time of slaughter

by an official inspector, and unless, if not condemned, they have been stamped or branded by said inspector in like manner as those inspected by the United States Bureau of Animal Industry for interstate trade. By "official inspector" is meant one appointed or approved either (a) by the Bureau of Animal Industry of the United States Department of Agriculture; or (b) by the State Board of Health of the state in which the animals are slaughtered; or (c) by the local board of health of the city or town in which the animals are slaughtered. The stamp used by inspectors other than those of the Bureau of Animal Industry of the United States Department of Agriculture shall indicate in letters not less than one-fourth of an inch high the name of the city or town in which the animals are slaughtered. Whoever sells or offers for sale, or has in his possession with intent to sell, a carcass, or any part thereof, required by the provisions of this section to be stamped or branded which has not been stamped or branded as herein provided, shall be punished by a fine of not more than one hundred dollars or by imprisonment for not more than sixty days, or by both such fine and imprisonment.

The material facts are that the defendant had in his possession in Boston a veal carcass with intent to sell. The animal was slaughtered outside the state by a farmer who raised it on his own farm, and who was not maintaining at the time any slaughtering or similar establishment. The carcass was consigned to N. E. Hollis & Co. of Boston, who sold it to the defendant. It was not inspected at the time of slaughter by an official inspector, nor was it stamped or branded, but was at all times healthy and fit for use as human food. It is said in the agreed facts that

The Commonwealth admits that the slaughter of the animal was performed in compliance with the requirements of the laws of the United States, as provided by an Act of Congress entitled "An Act Making Appropriations for the Department of Agriculture for the Fiscal Year Ending June 30, 1907." Approved June 30, 1906 (34 United States Statutes at Large, 674, volume 1, chapter 3913). (See, however, act of Congress entitled "An Act Making Appropriations for the Department of Agriculture for the Fiscal Year Ending June 30, 1908." Approved March 4, 1907 (35 United States Statutes at Large, 1260, 1265, volume 1, chapter 2907), and that "the present case comes under the exceptions made in said act of Congress in favor of animals slaughtered by a farmer on a farm."

We construe these two statements together to mean that the animal was slaughtered by a farmer within the exception of the Federal Act, for that act contains no regulation for such slaughtering, and there is nothing in the record to show that acting under it the Department of Agriculture has issued any regulation. Moreover, no point in this connection is made by the defendant other than those discussed in this opinion. The single question presented is the constitutionality of Statute 1912, chapter 248.

Its constitutionality is attacked in two aspects,—First, in the light of statute of United States just cited, which the Commonwealth admits was in force; and, second, independently of the operation of the Federal Enactment.

It is urged that the defendant being not the original consignee under interstate shipment, but a later purchaser after the goods had become commingled with the general mass of property and hence subject with all other domestic property to state laws, Pervear v. Commonwealth, 5 Wal. 475–479, is not within the class as to whom the act is unconstitutional, and therefore does not show that its unconstitutional features injure him, and is not in a position to question them. Southern Railway Company v. King, 217 U. S. 524, 534; Darnell v. Indiana, 226 U. S. 390, 398, and cases there cited. In any event the defendant would have a right to assail the validity of the statute as involving discrimination against articles of commerce shipped from another state. We prefer to treat all questions of constitutionality open to the defendant.

First.— The pertinent provisions of the Federal Act are that it confers full authority upon the Secretary of Agriculture to make inspection (inter alia) of all cattle before they are "allowed to enter any slaughtering, packing, meat-canning, rendering or similar establishment" for producing food products to be used in interstate or foreign commerce, and to make post-mortem examination and inspection of carcasses of cattle to be prepared for human consumption, and for an inspection of the establishment where such slaughtering and preparation is carried on. The act exempts from its inspection requirements "animals slaughtered by any farmer on the farm and sold and transported in interstate or foreign commerce" with certain limitations not here material.

The transportation of food products in interstate and foreign commerce and the enactment and enforcement of regulations to the end that nothing may become the subject of such commerce which is unwholesome, unhealthy or diseased, is within the power of Congress. Hipolite Egg Company v. United States, 220 U. S. 45. When Congress prescribes concerning any branch of commerce within its sphere of control its regulations are paramount and render nugatory state statutes covering the same ground. The power of the state must yield to the exercise of that delegated to the United States. It is only the silence of Congress which clothes with validity state laws concerning subjects in that jurisdictional zone, within the power reserved to the states, and at the same time within the enumer-

ated powers of the federal government. Adams Express Company v. Croninger, 226 U. S. 491–506; Northern Pacific Railway v. Washington, 222 U. S. 370; Mendon v. New York, New Haven & Hartford Railroad, 223 U.S. 1-55; Chicago, Rock Island & Pacific Railway v. Hardwick Farmers Elevator Company, 226 U. S. 426, 435; Yazoo & Mississippi Valley Railroad v. Greenwood Grocery Company, 227 U.S. 1. The Federal Act governs the inspection of all cattle, both alive and dead, prepared for interstate transportation in a slaughtering and similar establishment; but it exempts the individual farmer preparing carcasses of cattle for such transportation. Is this exemption to be interpreted as a determination that such product of the farmer shall be absolutely free in interstate commerce, or is it merely a declaration that, until further action is taken, the subject is outside the scope of the act? It seems to us that the act must be interpreted as having the latter effect. We reach this conclusion on authority and if not controlled by that, on reason. It has been said that "It should never be held that Congress intends to supersede or by its legislation suspend the exercise of the police power of the states, even when it may do so, unless the purpose to effect that result is clearly manifested." Reid v. Colorado, 187 U.S. 137, 148. In Reid v. Colorado the alleged conflict was presented between a federal act which covered the driving on foot or transporting between states and territories "of any live stock known to be affected with any contagious, infectious or communicable disease" and a state statute which prohibited the bringing into Colorado of cattle from designated parts of Texas without such cattle having been held at some place north of the 36th parallel of north latitude for ninety days and without having procured from a state officer a certificate that the cattle were free from all contagious and infectious disease and had not been exposed to any such disease within ninety days prior thereto. It was held that the state statute did not cover the same ground as the act of Congress, and was not inconsistent with it. The ground of the decision was that the prohibition by the Federal Act from interstate commerce of cattle known to be diseased did not prevent a state from regulating by reasonable inspection laws the introduction within its borders of cattle not known to be diseased. Knowledge by the person transporting the cattle of their diseased condition was the test established by the Federal Act, while under the state statute knowledge as to the actual condition of the cattle was of no consequence. This principle is controlling of the case at bar. Congress did not include the farmer within the purview of its inspection in his preparation of food products for interstate commerce, but expressly exempted him. It did not say, however, that he should be immune from valid police regulations by the several states. It went no further than to say that the Federal Act did not apply to him. That left the farmer just where he would have been if no Federal Act had been passed. He is on the same footing as the cattleman in Reid v. Colorado ubi supra, who had no knowledge as to the freedom from disease of his cattle.

But if the case at bar is not within the express authority of Reid v. Colorado, we think on reason the same conclusion must be reached. The protection of the public health manifestly is within the police power of the state. Commonwealth v. Wheeler, 205 Mass. 384; Pittsburg & Southern Coal Company v. Louisiana, 156 U.S. 590-599. The federal act does not assert expressly nor imply by fair intendment that cattle slaughtered by a farmer are more healthy or less liable to disease than those at a slaughtering establishment. It would be difficult to state any ground on which such a distinction could stand. An inference may be drawn from the federal act that the farmer and retail dealer, so far as concerned their personal preparation of cattle for interstate commerce, were almost negligible. But whatever may have been the motive of Congress, the rational interpretation of the language used is that it omitted from its provisions the farmer, but did not determine that he was to have special protection. The state statute does not conflict in any respect with the federal act, but expressly recognizes whatever may be done under it, and gives it the full effect required by the federal constitution.

Second.— Independently of the Federal Act, is the Massachusetts statute invalid? The principle in the light of which the constitutionality of all legislation, state as well as national, must be considered, is that "the presumption is in favor of its validity and that the court will not declare it to be a violation of the fundamental principles of our government and for that reason void, unless its invalidity is established beyond reasonable doubt." Bigelow, C. J., in Commonwealth v. People's Five Cents Savings Bank, 5 Allen, 428, 432. This rule has been followed by the United States Supreme Court in passing upon state statutes. In Atkin v. Kansas, 191 U. S. 207, it was said at page 223, "Legislative enactments should be recognized by the courts as embodying the will of the people, unless they

are plainly and palpably beyond all question in violation of the fundamental law of the constitution."

The basis of attack against the constitutionality of this act is that it is an attempt to regulate interstate commerce. The state may enact laws and pass regulations for the preservation or promotion of health, within its borders, which have any reasonable relation to that object, and are not plain invasions of rights secured by fundamental Federal Law. But it may not, under pretence of protecting health, pass laws which in their essence or in their necessary and natural operation constitute a prohibition of or a direct burden upon foreign or interstate commerce.

The principle is established by numerous decisions of the United States Supreme Court that a state "has the right to legislate for the safety or welfare of its people, and that this right is not taken from it because of the exclusive right of congress to regulate interstate commerce, except in cases where the attempted exercise of authority by the Legislature is in conflict with an act of congress or is an attempt to regulate interstate commerce." McLean v. Denver & Rio Grande Railroad, 203 U. S. 38, 50, and cases there cited.

A state law, although apparently for the protection of the public health, will be scrutinized as to its results in actual practice to ascertain its essential characteristics, and will not be upheld merely because of its declared purpose. A statute which really operates as an undiscriminating exclusion of the products of other states will not be sustained because under the guise of a health statute. If it is in fact a regulation of interstate commerce in its primary application, then it is invalid regardless of its dress or designation. Railroad Company v. Husen, 95 U. S. 465; Minnesota v. Barber, 136 U. S. 313. Brimmer v. Rebman, 138 U. S. 78, and Voigt v. Wright, 141 U.S. 62, are illustrations of nominal health laws, which in substance were found to be inhibitions upon the use of products of other states. Nor is it of consequence that the state law is not prohibitory in its nature, provided its effect is to discriminate against the products of other states and in favor of its own. Commonwealth v. Caldwell, 190 Mass. 355; Darnell & Son v. Memphis, 208 U.S. 113, and cases there reviewed. American Steel & Wire Company v. Speed, 192 U. S. 500; Western Union Telegraph Company v. Kansas, 216 U. S. 1. There is, however, a large class of state laws which have been upheld as valid police regulations, although incidentally they bear upon interstate commerce. If such statutes

are a genuine exercise of the police power, are general in their operation, and have a rational connection with the end to be accomplished of protecting and promoting the public health, they will be sustained, even though they may affect or burden interstate commerce in some respects. See cases collected in Commonwealth v. People's Express Company, 201 Mass. 564, at page 578; Chicago, Rock Island & Pacific Railway v. Arkansas, 219 U. S. 453.

In the light of these established doctrines. Statute 1912, chapter 248, section 1, must be examined. It is plain that it relates exclusively to carcasses of cattle, sheep or swine, slaughtered outside the state. To this extent it appears to be discriminatory and to apply to interstate commerce. But it is in truth only one paragraph of a comprehensive code touching the general subject of meat for food. See Revised Laws, chapter 56, sections 70 to 76, chapter 75, sections 99 to 108, chapter 90, and many acts in amendment thereof which need not be enumerated. The import of all these statutes, considered as a whole, is to regulate in considerable detail the cleanliness of the slaughter house, the inspection of all animals intended for food and of their carcasses at the time of slaughter, and the stamping thereof as a guaranty of healthfulness. They cover within the realm of the state such inspection with as great minuteness as do the federal acts the same field touching interstate and foreign commerce. It is plain that when Statute 1912, chapter 248, is read in connection with this general code, it is merely intended to assure to the people of this Commonwealth something like the same freedom from diseased meat for food coming from other states, which is required by the federal act for those branches of interstate commerce over which in this respect the power of Congress has been exerted. The whole body of statute law of the Commonwealth touching that subject manifests a purpose to be complementary to the federal inspection law, and giving it full effect in the domain covered by it, to provide similar inspection for all other meat for food, both that slaughtered here and that which may come from other states without federal inspection.

It is plain, under Reid v. Colorado, 187 U. S. 137, that a quarantine station might be established at the state line and reasonable inspection required there before such food product could be admitted. Chapter 248 does not go so far as this. It accepts at face value such inspection as may be required by the law of the state where the slaughtering took place, whatever may be its details.

The circumstance that the legislation affects only property to be sent out of the state or to be received into the state, and thus relates wholly to interstate commerce, is not decisive. A law requiring inspection of hides to be sent out of the state was held to have such relation to the protection of property against theft or fraud as to be valid in McLean v. Denver & Rio Grande Railroad, 203 U.S. 38. The converse sustaining the validity of laws requiring inspection of cattle brought into the state was held in Reid v. Colorado, 187 U.S. 137, and in Asbell v. Kansas, 209 U. S. 251. It is not necessary to inquire whether the provision of chapter 248, section 1, as to the size of the letters and other details of the stamp are valid, provided the stamping is done as required by the law of the state where the slaughtering occurred, and we make no intimation about it. If that be treated as invalid provided the local law is followed, it is so subsidiary a part of the statute as not to invalidate the whole. It is separable from the rest, and the Legislature would probably have enacted the remaining portions of the statute, if the constitutionality of this part had been doubtful. Mutual Loan Company v. Martel, 200 Mass. 482, 487. The main purpose of the act is to obtain assurance on the face of the product that it has been inspected under such circumstances as may show that there is nothing dangerous to the public health in its use.

It fairly may be inferred from the federal acts and our own statutes touching the subject that it generally is believed that inspection of this sort, in order to be of value, must be made before or at the time of slaughtering, and that such inspection as is practicable at a later time after viscera and hide have been removed would fail to reveal the unhealthy or diseased condition of the animal which make its carcass unfit for food. If this inference be sound and the belief rests upon a foundation of truth, it follows that the only way in which the public health can be protected is by inspection at or before the time of slaughter, an inspection impossible in any jurisdiction save where that takes place. Unless statutes like the one now under consideration are valid, there is no way by which the people of a state can protect themselves against noxious food of this sort. We cannot believe that this is the result of the dual system of government under which we live. It may be urged that as thus interpreted the statute operates in such a way as to prohibit the introduction into this Commonwealth of meat food slaughtered by the farmer from a state in which no general inspection law like our own has been enacted. It

may be assumed perhaps that a federal inspector may be available for purposes of inspection, even in such states. But however that may be, the right to interstate commerce is not absolute and unqualified. It is subject to reasonable police regulations in the interest of the public health. The statute does not prohibit the introduction into this Commonwealth of all carcasses of cattle for food. It merely inhibits the sale of those which do not bear some sign or badge of healthfulness made by an inspection at a time and under circumstances when such inspection is efficacious for the detection of disease. There is nothing in the record to indicate, and it certainly cannot be assumed as matter of common knowledge, that inspection potent to discover diseased conditions can be made at any time later than the slaughtering. The real question is whether this is a reasonable regulation fairly adapted to accomplish a result having a direct bearing upon the public health. If it is, the fact that the particular carcass was healthy is of no consequence. Commonwealth v. Wheeler, 205 Mass. 384.

The validity of the statute is sustained by the principles declared in recent decisions. Reid v. Colorado, 187 U. S. 137. has been adverted to already. It was approved and its scope amplified in Asbell v. Kansas, 209 Mass. 251, where a Kansas statute was upheld which forbade the transportation into that state of cattle from any point south of it, except for immediate slaughter, which had not been passed as healthy by the proper state official or by inspectors of the federal bureau of animal industry. There was considered in Silz v. Hesterberg, 211 U. S. 31. a New York statute which prohibited under penalty the possession of game during the closed season, ten months in length, for taking game in its own territory. This statute was held to be valid and enforcible against an importer of game lawfully captured in Russia and consigned to Silz in New York. even though a proper system of inspection would have distinguished the Russian black cock from any domestic game bird. In Savage v. Jones, 225 U.S. 501, it was held after an elaborate review of authorities that a state statute regulating the sale and requiring formula of the ingredients of a food for stock was within the police power, although it required statements to be made by manufacturers in other states. Purity Extract Company v. Lynch, 226 U.S. 192, sustained the validity of a state statute which prohibited the sale within its limits of a harmless beverage which contained a trifling percentage of malt. The same result was reached as to statutes similar in kind in Standard Stock Food Company v. Wright, 225 U.S.

540; Patapsco Guano Company v. North Carolina, 171 U. S. 345, 361; Missouri, Kansas & Texas Railway v. Haber, 169 U. S. 613; Heath & Milligan Manufacturing Company v. Worst, 207 U. S. 338; Rasmussen v. Idaho, 181 U. S. 198; Smith v. St. Louis & South Western Railway, 181 U. S. 248.

In principle the present statute is indistinguishable from those considered in these cases, and it is governed by the rules there announced. A statute like the one at bar in its operation was upheld in Borden's Milk Company v. Board of Health, 81 N. J. L. 218. The contentions of the defendant seem less strong than those advanced in behalf of the importer in Silz v. Hesterberg, 211 U. S. 31. The statute is plainly distinguishable in essential particulars from that discussed in Opinion of Justices, 211 Mass. 605. The conclusion is that Statute 1912, chapter 248, is a police regulation which has "real relation to the suitable protection of the people of the state, and is reasonable in its requirements" and hence is not invalid, although incidentally it affects interstate commerce, and it does not conflict with any legislation enacted by Congress. Savage v. Jones, 225 U. S. 501, 525.

Exceptions overruled.

D. V. McIsaac, Assistant District Attorney, for Commonwealth. W. F. Kimball and E. W. Bancroft, for Defendant.

SUMMARY OF VITAL STATISTICS FOR THE MONTH OF OCTOBER, 1913.

Boston had 900 deaths in October, 1913, compared with 936 for October of last year, and a death rate of 14.41 against 15.31 for October, 1912. Deaths of nonresidents numbered 118 against 131 a year ago. Deducting deaths of nonresidents the corrected death rate for October, 1913, was 12.52 against 13.16 for October, 1912.

Of deaths from reportable diseases the principal decrease was: Measles, 4; and the principal increases were tuberculosis (all forms), 9; typhoid fever, 5; and scarlet fever, 4.

Other important differences were as follows:

October, 1913, decreases compared with October, 1912:

0

| "Other diseas Pneumonia | | | | | | | | | | | |
|----------------------------|-------|-------|-----|-----|------|------|------|------|----|--|--|
| ctober, 1913, inc | rease | es co | mpa | red | with | Octo | ber, | 1912 | 2: | | |
| Organic heart | | | , | _ | | | | | | | |
| Appendicitis | | | | | | | | | | | |

Ward 11 again had the lowest death rate, 7.28, and Ward 13 the highest, 21.90. There were 20 less deaths under one year than in October, 1912, 22 less under 5 years, and 37 less over 60.

Total deaths under one year numbered 177, which is 18 less than the average number for October for the preceding five years. Of these 177 deaths, 66 were due to premature birth, congenital debility, malformations and other diseases peculiar to early infancy; 61 to diarrhea and enteritis, 19 to pneumonia and broncho-pneumonia; 9 to reportable diseases and 22 to other causes.

Of deaths under one year Ward 6 had the largest number, 13, and Ward 13 came next with 12. One hundred and twenty-three were over two weeks old and of these 94 were bottle-fed.

Total deaths for the first ten months of 1913 numbered 9,862 against 9,707 for the corresponding period of last year, giving death rates respectively of 16.10 and 16.18.

Total deaths under 1 year for the same period numbered 1,822 this year against 1,880 last year.

GENERAL STATISTICS.

Population, Ward Area, Persons to Acre, and Rates.

| | | us. | nd. la- | | STILLB | RTHS E | XCLUDED. |
|----------|---------------------|--------------------------|--|--|--|--|---|
| | Land Area in Acres. | Population, 1910 Census. | Persons to Acre of Land. (Using Census Population.) | Population, Estimated, July 1, 1913.† | Death Rates, 1912. (Population, Estimated.)† | Birth Rates, 1911, (Population, Estimated.)† | Death Rates, 1912, of Children Under One Year, Per 1,000-Births, 1911. |
| * Boston | 27,674 | 686,092 | 24.8 | 735,399 | 16.17 | 25.99 | 119.35 |
| Wards 1 | 1,188 | 29,676 | 24.9 | 32,439 | 13.05 | 24.90 | 104.58 |
| 2 | 357 | 28,812 | 80.7 | 30,676 | 17.11 | 33.37 | 120.81 |
| 3 | 332 | 15,339 | 46.2 | 15,667 | 15.29 | 26.84 | 106.02 |
| 4 | 301 | 13,294 | 44.1 | 13,808 | 18.02 | 25.50 | 148.26 |
| 5 | 207 | 12,811 | 61.9 | 12,914 | 16.69 | 24.28 | 118.59 |
| 6 | 293 | 35,758 | 122.0 | 39,492 | 16.18 | 48.81 | 100.33 |
| 7 | 394 | 14,913 | 37.9 | 14,483 | 20.05 | 26.57 | 94.39 |
| 8 | 171 | 32,430 | 189.6 | 33.479 | 12.07 | 33.21 | 70.64 |
| 9 | 186 | 26,427 | 141.5 | 29,214 | 15.13 | 27.40 | 106.24 |
| 10 | 394 | 25,320 | 64.3 | 26,277 | 11.86 | 10.51 | 114.81 |
| 11 | 663 | 27,444 | 41.4 | 30,738 | 9.69 | 14.22 | 63.73 |
| 12 | 235 | 24,294 | 103.4 | 25,948 | 14.98 | 14.57 | 181.82 |
| 13 | 611 | 21,561 | 35.3 | 21,501 | 17.24 | 31.11 | 117.91 |
| 14 | 405 | 23,584 | 58.2 | 24,527 | 14.44 | 24.14 | 115.92 |
| 15 | 277 | 21,216 | 76.6 | 21,803 | 14.80 | 20.25 | 119.82 |
| 16 | 564 | 25,633 | 45.6 | 28,033 | 12.75 | 24.23 | 110.42 |
| 17 | 460 | 26,426 | 57.4 | 27,793 | 15.49 | 25.65 | 117.22 |
| 18 | . 220 | 22,735 | 103.3 | 23,133 | 17.08 | 25.08 | 99.30 |
| 19 | 760 | 31,714 | 41.7 | 33,332 | 13.77 | 22.77 | 111.41 |
| 20 | 1,716 | 55,720 | 32.5 | 64,723 | 12.97 | 20.33 | ‡158.90 |
| 21 | 640 | 30,511 | 20.5 | 33,085 | 13.54 | 17.53 | 85.14 |
| 22 | 760 | 29,975 | 38.1 | 31,403 | 12.50 | 20.55 | 100.48 |
| 23 | 7,617 | 30,668 | 4.0 | 33,423 | 12.13 | 19.93 | 94.94 |
| 24 | 3,252 | 37,749 | 11.6 | 41,695 | 12.63 | 23.73 | 103.11 |
| 25 | 2,740 | 26,575 | 9.7 | 29,661 | 11.95 | 24.73 | 96.21 |
| 26 | 2,869 | 15,507 | 5.4 | 16,152 | 12.29 | 29.59 | 107.30 |

^{*} Hyde Park was annexed to Boston January 1, 1912, and became Ward 26. Under "Boston," in the above table, Hyde Park statistics are included.

[†] Population estimated by arithmetical method, using the censuses of 1905 and 1910. ‡ An infant asylum is located in this ward.

VITAL STATISTICS.

October. General Summary.

| | | | | 1913. | . 1912. |
|------------------------|--|--|--|---------|---------|
| Total deaths | | | | 900 | 936 |
| Population, estimated* | | | | 735,399 | 720,031 |
| Death rate per 1,000 | | | | 14.41 | 15.31 |
| Deaths of nonresidents | | | | 118 | 131 |
| Corrected death rate† | | | | 12.52 | 13.16 |

^{*}Population estimated by arithmetical method, using the censuses of 1905 and 1910.

† Nonresidents not included.

October, 1913. Statement of Deaths.

| O | ctobel, | , 1> | 10. | Sta | tement of Death | 3. | | |
|--------------|-------------|------|-----|-----|--------------------|-----|------|-----|
| Total number | r (stillbir | ths | ex- | ! | NATIVITY | 7. | | |
| cluded) | | | | 900 | United States . | | | 549 |
| , | | | | | Ireland | | | 134 |
| | Sex. | | | | England and Wales | | | 24 |
| Males . | | | | 482 | Scotland | | | 6 |
| | | | | | Germany | | | 16 |
| Females . | • • | ٠ | • | 418 | Canada | | | 79 |
| | | | | | Italy | | | 21 |
| (| Condition | N. | | | Russia and Poland | | | 34 |
| Single . | | | | 408 | Sweden and Norway | | | 14 |
| Married . | | | | 314 | France | | | |
| Widowed | | | | 171 | Other countries . | • | • | 15 |
| Divorced | | | | | Unknown | • | • | 8 |
| | | • | • | 4. | NATIVITY OF M | отв | ERS. | |
| Unknown | | ٠ | ٠ | 3 | United States . | | | 265 |
| | | | | | Ireland | | | 269 |
| | Color. | | | | England and Wales | | | 30 |
| White . | | | • | 869 | Scotland | | | 14 |
| Black (negro | or mixed |) . | | 30 | Germany | | | 21 |
| Chinese . | | | | 1 | Canada | | | 77 |
| Deaths of ch | ildren: | | | | Italy | | | 49 |
| Under one | WAST | | | 177 | Russia and Poland | | | 60 |
| | | | | | Sweden and Norway | | | 13 |
| Under two | | | | 206 | France | | | 1 |
| Under five | vears | | | 233 | Other countries . | | | 27 |
| | 5 0000 | | | | Conci codificion . | | | 74 |

| List mber. | | Тот | ALS. | Year. | | | | | Years. | rs. | Years. | Years. |
|--------------------------------|--|--------|---------|------------|----------|-----------|-----------|-----------|------------|---------------|------------|------------|
| Abridged List Class Number. | CAUSES OF DEATH. * | 1913. | 1912. | Under 1 Y | I Year. | 2 Years. | 3 Years. | 4 Years. | Under 5 Y | 5 to 9 Years. | 10 to 14 Y | 15 to 19 Y |
| | Total, all causes $\left\{ \begin{array}{l} 1913 \\ 1912 \end{array} \right.$ | 900 | 936 | 177 197 | 29 30 | 12 12 | 7 10 | -8 | 233 255 | 16 16 | 19 13 | 14 14 |
| 1 | Typhoid fever | 14 | 9 | | | | | | | 1 | 1 | |
| 3 | Malarial fever | | | | | | | | | | | |
| 4 | Smallpox | | | | | | | | | | | |
| 5 | Measles | | 4 | | | , | | | | | | |
| 6 | Scarlet fever | 4 | | | 1 | 1 | | 1 | 3 | | | |
| 7 | Whooping cough | 6 | 5 | 4 | 1 | 1 | | | 6 | | | |
| 8 | Diphtheria and croup | 5 | 6 | 1 | 2 | | | | 3 | | 2 | |
| 9 | Influenza | 3 | 2 | | | | | | | | | |
| 11 | Cholera nostras | | | | | | | | | | | |
| 12 | Other epidemic diseases | 2 | 3 | | | | | | | : | | |
| 13 | Tuberculosis of the lungs | 85 | . 81 | | 2 | | 1 | | 3 | 1 | 1 | 6 |
| 14 | Tuberculous meningitis | 6 | 6 | 2 | 3 | | | | 5 | 1 | | |
| 15 | Other forms of tuberculosis | 9 | 4 | 2 | 1 | 1 | 1 | | 5 | 3 | | |
| 16 | Cancer, malignant tumor | 79 | 65 | | | | | | | | | |
| 17 17a | Simple meningitis (except cerebrospinal meningitis). Cerebro-spinal meningitis | 5 1 | 4 | 1 | | 1 | | | 1 | 1 | 1 | |
| 18 | Apoplexy and softening of the brain, | 54 | 44 | | | | | | | | | |
| 19 | Organic heart diseases | 113 | 111 | | | | | | | | 1 | |
| 20 | Acute bronchitis | 2 | 4 | 1 | | | | | 1 | | | |
| 21 | Chronic bronchitis | 4 | 1 | 1 | | | | 1 | 2 | | | |
| 22 | Pneumonia (except broncho-pneu- | 38 | - 78 | 6 | 3 | 1 | 1 | | 11 | 1 | 2 | |
| 22a | monia). Broncho-pneumonia | 33 | 32 | 13 | 4 | 1 | | | 18 | | | |
| 23 | Other respiratory diseases | 9 | 7 | 2 | | 1 | | | 3 | | | |
| 24 | Diseases of the stomach (cancer ex- | 9 | 3 | 2 | | 1 | | 1 | 4 | | | |
| 25 | cepted). Diarrhea and enteritis (under two | 70 | 75 | 61 | 9 | | | | 70 | | | |
| 26 | years). Appendicitis and typhlitis | 18 | 9 | | | | 1 | 2 | 3 | | 3 | . 1 |
| 27 | Hernia, intestinal obstruction | 6 | 9 | 1 | | | | | 1 | 1 | | |
| 28 | Cirrhosis of liver | 6 | 9 | | | | | | | | | |
| 29 | Bright's disease and nephritis | 60 | 46 | | | | | | | 1 | | |
| 30 | Diseases of women (not cancer) | 3 | 9 | | | | | | | | | |
| 31 | Puerperal septicemia | 3 | 3 | | | | | | | | | |
| 32 | Other puerperal diseases | 6 | 5 | | | | | | | | | 2 |
| 33 34 | Congenital debility and malformations. Old age | 57 | 58 5 | 57 | | | | | 57 | | | |
| 35 | Violent deaths | 53 | 57 | 2 | 1 | 9 | 7 | | | | | |
| 36 | Suicide | 6 | 9 | | 1 | 3 | 1 | 1 | 8 | 3 | 3 | 2 |
| 37 | Other diseases | 128 | 169 | 2.0 | | 4 | | | 97 | | | |
| 38 | Ill-defined causes | | | | 2 | 1 | 2 | 2 | 27 | 3 | 5 | 3 |
| 00 | in-defined causes | 3 | 3 | 1 | | • • • • • | • • • • • | • • • • • | 1 | | • • • • • | |

October, 1913.

| ears. | Years. | 34 Years. | ears. | ears. | Years. | Years. | Years. | Years. | ears. | Years. | 79 Years. | Years. | ears. | pun | | Sex. | list imber. |
|-----------------|------------|------------|-----------------|-----------------|------------|------------|------------|------------|-----------------|------------|------------|------------|-----------------|--------------------|------------|------------|--------------------------------|
| 20 to 24 Years. | 25 to 29 Y | 30 to 34 Y | 35 to 39 Years. | 40 to 44 Years. | 45 to 49 Y | 50 to 54 Y | 55 to 59 Y | 60 to 64 Y | 65 to 69 Years. | 70 to 74 Y | 75 to 79 Y | 80 to 84 Y | 85 to 89 Years. | 90 Years and over. | Males. | Females. | Abridged List Class Number. |
| 28 31 | 32 35 | 40 39 | 40 56 | 51 51 | 53 45 | 66 62 | 76 50 | 47 59 | 61 60 | 44 52 | 32 38 | 28 35 | 14 16 | 6 9 | 482 485 | 418 451 | |
| 4 | 2 | 1 | 2 | 2 | .1 | | | | | | | | | | 10 | 4 | 1 |
| | | | | | | | , | | , | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | 4 |
| | | | | | | | | | | | | | | | | | 5 |
| | | 1 | | | | | | | | | | | | | | 4 | 6 |
| | | | | | • • • • • | | | | | | | | | | 1 | 5 | 7 |
| | | | | | | | | | | | | | | | 5 | | 8 |
| | | | | | 1 | | 1 | | | | | | | 1 | 2 | 1 | 9 |
| ••• | | | | | | | | | | | | | • • • • • • | | | | 11 |
| | | | | | | | 1 | ••••• | 1 | | | | | | 2 | | 12 |
| 12 | 7 | 11 | 13 | 13 | 5 | 7 | 4 | | | 2 | | | | | 56 | 29 | 13 |
| | | • • • • • | | | | | | | | | | , . | | | 3 | 3 | 14 |
| | ,. | | | 1 | | | | | | | | | | | 6 | 3 | 15 |
| | | 1 | 8 | 5 | 12 | 13 | 13 | 10 | 6 | 4 | 2 | 4 | 1 | | 24 | 55 | 16 |
| • • • • • | | | | | | | | | 2 | | | | | | 3 | 2 | 17 |
| ••••• | | | | | | | | | | | | | | | 1 | | 17a |
| 1 | 2 | 1 | 1 | | 4 | 5 | 6 | 9 | 5 | 10 | 5 | 3- | 1 | 1 | 27 | 27 | 18 |
| 1 | 6 | 2 | 3 | 5 | 9 | 12 | 13 | 9 | 18 | 11 | 8 | . 8 | 6 | 1 | 54 | 59 | 19 |
| | | | | | | | | | | | | | 1 | | | 2 | 20 |
| • • • • • | | | | | 1 | | | | | | | | 1 | | 2 | 2 | 21 |
| | 1 | 2 | 1 | 2 | 5 | 1 | 5 | 1 | 3 | 1 | 2 | , | | | 21 | 17 | 22 |
| | 1 | 1 | | 2 | | 3 | 1 | | 1 | 1 | 1 | 2 | | 2 | 21 | 12 | 22a |
| | | | | 1 | 1 | | 2 | | 1 | | | | | | 7 | 2 | 23 |
| 1 | | | | | 1 | | 2 | | | | 1 | | | | 5 | 4 | 24 |
| 2 | | | | 2 | | 4 | | | | | | | | | 33 | 37 | 25 26 |
| | ,2 | 1 | 1 | 4 | | 1 | 1 | 1 | 4 | | 1 | | | | 9 2 | 4 | 27 |
| | 1 | | 1 | | 1 | 1 1 | 1 | 1 | 1 | | | | | | 4 | 2 | 28 |
| 1 | | 6 | 1 | 1 | 3 | 11 | 8 | 6 | 9 | 6 | 3 | 2 | 2 | | | 30 | 29 |
| 1 | | 1 | 1 | | 1 | 11 | | | 9 | | 3 | 4 | 2 | | 30 | 3 | 30 |
| 1 | | 1 | | 1 | , | | | | | | | | | 1 | | 3 | |
| | 2 | 1 | 1 | | | | | | | | | | | | | 6 | 32 |
| | | | 1 | | | | | | | | | | | | 36 | .21 | 33 |
| | | | | | | | | | | | | | | | | | 34 |
| 2 | 1 | 5 | 2 | 4 | 3 | 6 | 7 | 1 | 2 | | 2 | 2 | | | 38 | 15 | 35 |
| 1 | | | | | | | | | | | | | | | | 1 | |
| 1 | | 5 | 5 | 12 | 5 | | | | | | 7 | 7 | | | | 55 | |
| | 1 | | 1 | | | | | | | | | | | | | 1 | |
| | 1 | 1 | 1 | 1 | 1 | | | | 1 | | 1 | | | 1 | | | |

| Abridged List Class Number. | CAUSES OF DEATH. | WARD RESIDENCE. | | | | | | | | | | | |
|--------------------------------|---|-----------------|----------------|---------------|---------------|----------------|----------------|---------------|----------------|--------------|----------------|----------------|--------------|
| Abrid | | Boston. | 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | 11. |
| | All causes | 900 | 29 | 23 | 17 | 18 | 17 | 41 | 21 | 26 | 25 | 35 | 19 |
| | Rates per 1,000 popula- 1913 tion | 14.41 15.31 | 10.53 11.93 | 8.83 12,13 | 12.78 12.86 | 15.35 18.98 | 15.50 18.28 | 12.22 14.13 | 17.07 21.75 | 9.14 9.94 | 10.08 15.37 | 15.68 12,24 | 7.28 7.13 |
| 1 | Typhoid fever | 14 | | | | 2 | | 2 | 1 | | | 1 | |
| 3 | Malarial fever | | | | | | | | | | | | |
| 4 | Smallpox | | | | | | | | | | | | |
| 5 | Measles | | | | | | | | | | | | |
| 6 | Scarlet fever | 4 | 1 | | | | | | | | | | |
| 7 | Whooping cough | 6 | | | | | 3 | | | 1 | | | |
| 8 | Diphtheria and croup | 5 | ., | 1 | | | | 1 | | 1 | | | |
| 9 | Influenza | 3 | 1 | | | | | | | | | | |
| 12 | Other epidemic diseases | 2 | | | | | | | | | | | |
| 13 | Tuberculosis of the lungs | 85 | 1 | 5 | 2 | 1 | 1 | 2 | . 4 | 2 | 1 | 3 | 2 |
| 14 | Tuberculous meningitis | 6 | | | 1 | | | | | | | | |
| 15 | Other forms of tuberculosis | 9 | | | | | | 1 | | | | | |
| 16 | Cancer, malignant tumor | 79 | 3 | 3 | | 1 | 2 | 2 | | 3 | 3 | 2 | 5 |
| 17 17a | Simple meningitis (except cerebro-spinal meningitis). Cerebro-spinal meningitis | 5 1 | | | | 1 | | | | | | | 1 |
| 18 | Apoplexy and softening of the | 54 | 4 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | | 3 | 1 |
| 19 | brain. Organic heart diseases | 113 | 3 | 2 | | 2 | 3 | 5 | 1 | 7 | 6 | 4 | 2 |
| 20 | Acute bronchitis | 2 | | | 1 | | | | | | | | |
| 21 | Chronic bronchitis | 4 | | | | | | | 1 | | 1 | | |
| 22 | Pneumonia (except broncho- | 38 | 4 | | 2 | 1 | 1 | 4 | 1 | 1 | 1 | 3 | |
| 22a | pneumonia). Broncho-pneumonia | 33 | 2 | 3- | 1 | | | 1 | 2 | | | 2 | |
| 23 | Other respiratory diseases | 9 | | | | | | . 2 | | | | | |
| 24 | Diseases of the stomach (cancer | 9 | | | | | | | | 1 | | | |
| 25 | excepted). Diarrhea and enteritis (under | 70 | 2 | | 1 | 2 | 3 | 2 | -2 | - 1 | 1 | 1 | |
| 26 | two years). Appendicitis and typhlitis | 18 | | | | | | | | | 1 | | 1 |
| 27 | Hernia, intestinal obstruction, | 6 | | | | | | | | | | | |
| 28 | Cirrhosis of liver | 6 | | | | 1 | | | 1 | | | | |
| 29 | Bright's disease and nephritis | 60 | 1 | | 2 | 1 | 2 | 3 | 2 | 1 | 1 | 5 | 2 |
| 30 | Diseases of women (not cancer), | 3 | | | | | | | | | | | |
| 31 | Puerperal septicemia | 3 | | | | | | 1 | | | | 1 | |
| 32 | Other puerperal diseases | 6 | | | | . 1 | | | | 1 | | | |
| 33 34 | Congenital debility and malformations. Old age | 57 | 1 | 2 | 2 | . 1 | 2 | 4 - | , | 2 | 3 | 2 | 1 |
| 35 | Violent deaths | 53 | 2 | | 2 | 1 | | 2 | 3 | 1 | 3 | 3 | |
| 36 | Suicide | 6 | | | | | | | | | | 1 | |
| 37 | Other diseases | 128 | 4 | 5 | 2 | 2 | 1 | 7 | 2 | 3 | 4 | 3 | 4 |
| 38 | Ill defined causes | 3 | | | | | | | 2.0 | | | 1 | |
| | Total deaths under one year | 177 | 4 | 4 | 5 | 3 | 4 | 13 | 4 | 4 | 4 | 2 | 2 |

October, 1913.

| 35 | | WARD RESIDENCE. | | | | | | | | Boston, Ward Unknown. | Nonresidents. | own. | Abridged List Class Number | | | | | | |
|---|----------------|------------------|----------------|----------------|---------------|----------------|------------------|------------------|--------------|--------------------------|---------------|----------------|-------------------------------|---------------|---------------|-------|------|-------|-------|
| 16.34 21.90 13.92 14.04 13.86 14.83 12.72 12.00 9.82 12.46 11.62 10.57 11.30 12.70 15.31 | 12. | 13. | 14. | 15. | 16. | 17. | 18. | 19. | 20. | 21. | 22. | 23. | 24. | 25. | 26. | Bosto | Nonr | Unkn | Abrid |
| 1 | 36 | 40 | 29 | 26 | 33 | 35 | 25 | 34 | 54 | . 35 | 31 | 30 | 40 | 32 | 21 | 1 | 118 | 9 | |
| | 16.34 15.74 | $21.90 \\ 13.68$ | 13.92 19.92 | 14.04 18.52 | 13.86 7.77 | 14.83 18.93 | $12.72 \\ 14.33$ | $12.01 \\ 12.19$ | 9.82 9.89 | $12.46 \\ 14.59$ | 11.62 8.75 | 10.57 15.19 | 11.30 11.93 | 12.70 9.03 | 15.31 9.60 | | | | |
| | 2 | | 1 | | | | 1 | | | 1 | 1 | 1 | | | | | 1 | | 1 |
| 1 | • • • • • | | | | | | | | | | | | | | | | | : | 1 |
| 1 | | | | | | , . | | | | | | | | | | | | • • • | |
| 1 1 </td <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>• • • • •</td> <td></td> <td></td> <td></td> <td>1</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> | | 1 | | | | | | | | • • • • • | | | | 1 | 1 | | | | |
| | 1 | | | | | | | | | | | | 1 | | | | 1 | | |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 < | | | | 1 | | | | | | | | | | | | | 1 | | 8 |
| 7 3 5 4 6 1 5 4 4 2 3 4 3 7 3 13 1 1 1 1 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>9</td> | | | | | | | | 1 | | 1 | | | | | | | | | 9 |
| 1 2 2 6 1 1 1 1 1 1 2 2 1 1 1 1 1 2 2 1 1 1 1 1 2 2 2 1 1 1 1 1 1 1 2 2 2 1 1 1 1 1 1 1 1 1 2 2 2 1 1 1 1 1 1 1 1 2 2 2 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 2 2 2 1 1 1 1 1 1 1 1 2 2 2 1 1 1 1 1 1 1 1 2 2 2 1 1 1 1 1 1 1 1 1 2 2 2 1 1 1 1 1 1 1 1 1 2 2 2 1 1 1 1 1 1 1 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 2 2 2 1 1 1 1 1 1 1 1 2 2 2 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 2 1 | | | | | | | | 1 | ٠ | | | | | | | | 1 | | 12 |
| 1 | 7 | | 5 | | | 6 | 1 | 5 | | 4 | 2 | | | | 3 | | | 3 | |
| 2 1 5 1 3 5 7 1 4 6 5 2 1 12 16 17 1 1 1 17 17a | | 1 | | 1 | | | | | 1 | | | | 1 | | | | | | |
| | | 2 | | 1 | 5 | | 3 | | 7 | | 4 | 6 | 5 | 2 | | | | | |
| 4 2 1 2 3 1 1 1 3 2 2 5 2 2 6 18 5 4 2 5 4 3 4 5 8 5 5 3 3 3 4 15 19 <td></td> | | | | | | | | | | | | | | | | | | | |
| 5 4 2 5 4 3 4 5 8 5 5 3 3 3 4 15 19 | | | | | | | | | | | | | | | | | | | |
| 1 2 1 2 3 1 1 2 1 2 1 1 3 22 3 2 1 1 1 1 1 1 1 2 22a 1 1 2 1 1 1 1 1 2 22a 1 1 2 1 1 1 2 1 3 1 2 2 1 2 1 3 1 2 2 1 1 1 1 1 1 1 1 1 2 2 2 1 1 1 1 | 4 | | 2 | 1 | 2 | 3 | 1 | 1 | 1 | 3 | 2 | . 2 | 5 | 2 | 2 | | 6 | | 18 |
| 1 1 1 1 1 2 1 2 1 2 1 2 1 1 2 1 2 1 1 1 3 22 3 1 4 2 4 6 1 1 1 1 1 1 1 1 | 5 | 4 | 2 | 5 | 4 | 3 | 4 | 5 | 8 | 5 | 5 | 3 | 3 | 3 | 4 | | 15 | | 19 |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | | | | | | | 1 | | | | | | | |
| 1 2 3 1 4 2 4 6 1 1 3 1 3 1 3 1 4 2 2 2 2 1 1 1 1 1 1 1 1 2 2 3 1 4 2 4 6 1 1 3 1 4 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | • • • • • | | ••••• | | | | | | | | ., | | | | | | | | |
| 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>3</td><td></td><td>1</td><td></td><td></td><td></td><td></td><td>1</td><td></td><td>1</td><td>1</td><td></td><td></td><td>i</td></t<> | | | | | | 3 | | 1 | | | | | 1 | | 1 | 1 | | | i |
| 2 1 1 1 1 2 2 2 1 3 13 4 25 2 1 3 13 4 25 2 1 3 1 1 1 1 | | | | | | | | | | | | | | | | | | | |
| 2 1 1 2 1 1 3 1 4 26 1 1 1 1 1 1 1 27 1 1 1 1 28 4 3 2 2 2 3 1 | | 2 | | | | - 1 | | | 1 | | | | | 1 | | | 2 | | 24 |
| 1 1 1 1 1 1 1 1 27 1 1 1 1 1 1 1 1 1 28 4 3 2 2 2 3 1 6 2 3 4 3 5 29 1 1 1 1 1 30 1 1 1 1 1 1 1 31 2 2 2 3 1 1 3 4 2 1 3 4 11 33 3 4 2 3 2 3 1 3 2 1 2 1 16 35 1 2 1 2 1 36 3 7 5 4 6 5 6 3 8 4 7 7 8 8 9 1 37 1 1 38 | 1 | 4 | 4 | 3 | 2 | 3 | 1 | 4 | 2 | . 4 | - 6 | | 1 | | 3 | | 13 | 4 | 25 |
| 1 1 </td <td>2</td> <td></td> <td></td> <td>1</td> <td>1</td> <td></td> <td></td> <td>2</td> <td>1</td> <td></td> <td></td> <td>1</td> <td>3</td> <td>1</td> <td></td> <td></td> <td>4</td> <td></td> <td>26</td> | 2 | | | 1 | 1 | | | 2 | 1 | | | 1 | 3 | 1 | | | 4 | | 26 |
| 4 3 2 2 2 3 1 6 2 3 4 3 5 29 1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 4 2 1 3 4 11 33 3 3 4 11 33 3 3 4 11 34 11 34 34 34 . | • • • • • | | 1 | | | 1 | 1 | • • • • • | | | | 1 | | | | | 1 | • • • | |
| 1 1 1 1 1 30 1 1 1 1 1 31 1 1 1 1 1 1 32 2 2 2 3 1 1 3 4 2 1 3 4 11 33 34 2 3 2 3 1 3 2 1 2 1 16 35 1 2 1 2 1 36 3 7 5 4 6 5 6 3 8 4 7 7 8 8 9 1 37 1 38 | | | | | | | | | | | | | | 4 | | | | | ł |
| 1 1 1 1 1 31 2 2 2 3 1 1 1 32 | 4 | 5 | 2 | 2 | | 3 | 1 | 1 | 0 | 2 | | | | 4 | 0 | | 9 | • • • | |
| 2 2 3 1 1 3 4 2 1 3 4 11 33 2 3 1 3 2 1 2 1 36 3 7 5 4 6 5 6 3 8 4 7 7 8 8 9 1 37 1 1 38 | | 1 | | | | | | | | | | | | | | | | | |
| 34 2 3 2 1 3 1 3 7 5 4 6 5 6 3 8 4 7 7 8 8 8 9 1 38 | | 1 | | | 1 | | | | | | 1 | | | | | | 1 | | 32 |
| 2 3 1 2 3 1 3 2 1 2 1 36 3 7 5 4 6 5 6 3 8 4 7 7 8 8 9 1 37 1 1 38 | 2 | 2 | | 3 | 1 | 1 | | 3 | 4 | 2 | | 1 | 3 | 4 | | | 11 | | 33 |
| 1 2 1 1 36 3 7 5 4 6 5 6 3 8 4 7 7 8 8 9 1 37 1 1 38 | | | | | | | | | | | | | | | | | | | 34 |
| 3 7 5 4 6 5 6 3 8 4 7 7 8 8 9 1 37 1 1 38 | | •••• | 3 | | | | 3 | 1 | 3 | 2 | | | 1 | 2 | 1 | | 16 | | |
| 1 | | | | | | | | | | | | | | | | | | i i | |
| | | | | . 4 | б | | | | | | 7 | | | | | | | | |
| | 4 | 12 | 8 | 6 | 4 | 5 | 3 | 9 | 9 | 7 | 6 | 1 | 8 | 6 | | | 31 | 5 | 00 |

death from typhoid fever and one death from diphtheria among cases brought to Boston for treatment.

VITAL STATISTICS. October, 1913, Infant Mortality.

| | | | | | | | | | | | | | | | | | | _ |
|--------------------------------|--------------------------------|-------|------------------------------|--------------|---------|---------|-----------------|-------------|-------------|-------------------|-----------|-----------|--------------|--------------|------------|--------|-------------|---------------|
| Detailed List Class Number. | Causes of Death. | | OBER FALS, DER EAR. | Under 1 Day. | 2 Days. | 3 Days. | Days to I Week. | to 2 Weeks. | to 3 Weeks. | Weeks to I Month. | 2 Months. | 3 Months. | to 6 Months. | to 9 Months. | 12 Months. | Fed. | Bottle Fed. | Nonresidents. |
| Dets | | 1913. | 1912. | Und | I to | 2 to | 3 D | 1 to | 2 to | 3 W | 1 to | 2 to | 3 to | 6 to | 9 to | Breast | Bott | Non |
| | Total | 177 | 197 | 26 | 4 | 7 | 12 | 5 | 5 | 5 | 22 | 15 | 33 | 24 | 19 | 29 | 94 | 31 |
| | Male | 105 | | | 4 | 2 | -6 | 4 | 1 | 4 | 15 | 9 | 19 | 13 | 13 | 19 | 55 | |
| | Female | 72 | | 11 | | 5 | 6 | 1 | 4 | | 7 | 6 | 14 | 11 | 6 | 10 | 39 | |
| | White | 175 | | | 4 | 7 | . 12 | 5 | 5 | | 22 | 15 | 33 | 24 | 17 | 29 | . 92 | |
| | Colored | 2 | | | | | | | | | | | | | 2 | | 2 | |
| 1 | Typhoid fever | | | | , | | | | | | | | | | | | | |
| 5 | Smallpox | | | | | | | | | | | | | | | | | |
| 6 | Measles | | | | | | | | | | | | | | | | | |
| 7 | Scarlet fever | | | | | | | | | | | | | | | | | |
| 8 | Whooping cough | 4 | 3 | | | | | | | | | | 1 | 2 | 1 | | 4 | 1 |
| 9 | Diphtheria and croup | 1 | | | | | | | | | | | | | 1 | | 1 | |
| 10 | Influenza | | | | | | | | | | | | | | | | | |
| 14 | Dysentery | | 1 | | | | | | | | | | | | | | | |
| 18 | Erysipelas | | | | | | | | | | | | | | | | | |
| 19 | Other epidemic diseases | | | | | | | | | | | | | | | | | |
| 20 | Pus-infection and septicemia, | | | | | | | | | | | | | | | | | |
| 24 | Tetanus | | | | | | | | | | | | | | | | | |
| 28 | Tuberculosis of the lungs | | 1 | | | | | | | | | | | | | | | |
| 29 | Acute miliary tuberculosis | | 1 | | | | | | | | | | | | | | | |
| 30 | Tuberculous meningitis | 2 | | | | | | | | | | | | 1 | 1 | 1 | 1 | 1 |
| 31 35} | Other forms of tuberculosis | 2 | -1 | | | | | | | | | 1 | | 1 | | | 2 | . 1 |
| 36 | Rickets | | 1 | | | | | | | | | | | | | | | |
| 37 | Syphilis | 5 | 3 | | | | | | 1 | 1 | | | 1 | 2 | | 2 | 3 | |
| 38 | Gonococcus infection | | | | | | | | | | | | | | | | | |
| 61 | Simple meningitis | 1 | | | | | | | | | | | | | 1 | | 1 | |
| 61a | Cerebro-spinal fever | | 1 | | | | | | | | | | | | | | | |
| 63a | Acute poliomyelitis | | | | | | | | | | | | | | | | | |
| 71 | Convulsions | 2 | 2 | | | 1 | | | | | | | | 1 | | 1 | | |
| 76 | Diseases of the ears | 1 | 1 | | | | | ? | | | | | 1 | | | | 1 | 1 |
| 79 | Organic diseases of the heart, | | | | | | | | | | | | | | | | | |
| 89 | Acute bronchitis | 1 | 2 | | | | : | | | | 1 | | | | | | 1 | |
| 91 | Broncho-pneumonia | 13 | 16 | | 1 | | | | | 1 | 3 | | 1 | 3 | 4. | 6 | 6 | |
| 92 | Pneumonia | 6 | | | | | | 2 | | | 2 | | | 2 | | 1 | 3 | |
| 93 | Pleurisy | 1 | | | | | | | | | | | 1 | | | | 1 | |
| 103 | Other diseases of stomach | 2 | | | | | 1 | | | | | | | | 1 | 1. | | |
| | | | | } | | | | | | | } | | | | | | | |

VITAL STATISTICS.

October, 1913, Infant Mortality.—Concluded.

| t Class | | OCTOBER TOTALS, UNDER | | у. | | | Week. | o o | sů. | 1 Month. | hs. | hs. | hs. | bs. | ths. | 2 W | GED EEKS OVER. | Š |
|--------------------------|---|-----------------------------|---------------|--------------|--------------|--------------|-------------|---------------|---------------|------------|----------------|----------------|----------------|----------------|-----------------|-------------|----------------------|---------------|
| Detailed List Number. | CAUSES OF DEATH. | | EAR. 1912. | Under I Day. | I to 2 Days. | 2 to 3 Days. | 3 Days to 1 | 1 to 2 Weeks. | 2 to 3 Weeks. | 3 Weeks to | I to 2 Months. | 2 to 3 Months. | 3 to 6 Months. | 6 to 9 Months. | 9 to 12 Months. | Breast Fed. | Bottle Fed. | Nonresidents. |
| 104 | Diarrhea and enteritis | 61 | 68 | | | | | | 3 | 2 | 6 | 12 | 20 | 11 | 7 | 11 | 50 | 13 |
| 108 | Appendicitis and typhlitis | | | | | | | | | | | | | | | | | |
| 109 | Hernias, intestinal obstruction, | 1 | 1 | | | | | | | | | . 1 | | | | | 1 | |
| 117 | Simple peritonitis | | | | | | | | | | | | | | ; | | | |
| 119 | Acute nephritis | | | | | | | | | | | | | | | | | |
| 143 | Furuncle | | | | | | | | | | | | | | | | | |
| 144 | Acute abscess | 1 | | | | | | | | | | | 1 | | | | 1 | |
| 145 | Other diseases of skin, etc | | | | | | | | | | | | | | | | | |
| 150a | Hydrocephalus | | | | | | | | | | | | | | | | | |
| ь | Congenital malformations of | 7 | 11 | 2 | | 1, | 2 | | 1 | | 1 | | | | | 2 | | 1 |
| c | heart. Other malformations | 2 | 5 | | | | | | | | 1 | | | | 1 | | 2 | 1 |
| 151a | Premature birth | 34 | 27 | 16 | 2 | 3 | 6 | 3 | | 1 | 3 | | | | | 1 | 3 | 6 |
| b | Congenital debility | 14 | 14 | 1 | | | 2 | | | | 4 | 1 | 4 | 1 | 1 | 1 | 10 | 3 |
| 152a | Injuries at birth | .8 | 9 | 6 | 1 | 1 | | | | | | | | | | | | 1 |
| ь | Other causes peculiar to early | 1 | 6 | 1 | | | | | | | | | | | | | | |
| 167 | | | | | | | | | | | | | | | | | | |
| 168 | cepted). Absorption of deleterious gases, | 1 | 1 | | | | 1 | | | | | | | | | | | |
| 172 | Traumatism by fall | 1 | | | | | | | | | | | 1 | | | | 1 | 1 |
| 182 | Homicide | | | | | | | | | | | | | | | | | |
| 187 189 | Ill-defined diseases | 1 | 2 | | | | | | | | 1 | | | | | 1 | | |
| , | Other causes | 4 | 7 | | | 1 | | | | | | | 2 | | 1 | 1 | 2 | 1 |
| | Breast fed * | 29 | 24 | | | | | | 1 | 3 | 5 | 4 | 3 | 6 | 7 | 29 | | 2 |
| | Bottle fed * | 94 | 117 | | | | | | 4 | 2 | 17 | 11 | 30 | 18 | 12 | | 94 | 22 |
| | Nonresidents | 31 | 21 | 4 | 1 | | 2 | | | | 4 | 4 | 7 | 5 | 4 | 2 | 22 | 31 |

^{*} Aged two weeks and over.

Additional Deaths for Other Months.

- May, 1913.—1 male; other external violence; white; aged 35 years; condition unknown; residence unknown; birthplace unknown; birthplace of mother unknown.
- July, 1913.—1 male; cerebral hemorrhage; white; aged 55 years; condition unknown; residence unknown; birthplace unknown: birthplace of mother unknown.
 - 1 male; traumatism by fall; white; aged 65 years; condition unknown; nonresident; birthplace unknown; birthplace of mother unknown.
 - 1 male; traumatism by fall; white; aged 40 years; single; residence Ward 24; birthplace unknown; birthplace of mother unknown.
 - 1 male; traumatism by other crushing, etc.; white; aged 40 years; condition unknown; residence unknown; birthplace unknown; birthplace of mother unknown.
 - 1 male; traumatism by other crushing, etc.; black; aged 39 years; single; residence Ward 12; birthplace unknown; birthplace of mother unknown.
- Aug., 1913.—1 female; alcoholism; white; aged 35 years; single; residence unknown; born in United States; birthplace of mother unknown.

Additional Deaths for Other Months.—Concluded.

- Sept., 1913.—1 male; tuberculosis; white; aged 45 years; condition unknown; residence Ward 5; birthplace unknown; birthplace of mother unknown.
 - 1 female; alcoholism; white; aged 45 years; condition unknown; residence unknown; birthplace unknown; birthplace of mother unknown.
 - 1 male; alcoholism; white; aged 45 years; condition unknown; residence Ward 7; birthplace unknown; birthplace of mother unknown.
 - 1 female; alcoholism; white; aged 35 years; married; residence Ward 10; birthplace unknown; birthplace of mother unknown.
 - 1 male; alcoholism; white; aged 29 years; single; residence Ward 9; birthplace unknown; birthplace of mother unknown.
 - 1 male; organic diseases of the heart; white; aged 56 years; widowed; residence Ward 12; birthplace unknown; birthplace of mother unknown.
 - 1 male; organic diseases of the heart; white; aged 51 years; condition unknown; nonresident; birthplace unknown; birthplace of mother unknown.
 - 1 female; Bright's disease; white; aged 50 years; condition unknown; residence Ward 8; birthplace unknown; birthplace of mother unknown.
 - 1 female; Bright's disease; white; aged 65 years; condition unknown; residence unknown; birthplace unknown; birthplace of mother unknown.
 - 1 male; traumatism by fall; white; aged 57 years; single; nonresident; born in Ireland; birthplace of mother unknown.
 - 1 male; traumatism by fall; white; aged 22 years; single; residence Ward 20; born in United States; mother born in United States.
 - 1 male; suicide by jumping from high place; white; aged 22 years; condition unknown; nonresident; born in Italy; birthplace of mother unknown.
 - 1 male; accidental drowning; white; aged 50 years; condition unknown; residence unknown; birthplace unknown; birthplace of mother unknown.
 - 1 male; other external violence; white; aged 62 years; married; residence Ward 16; birthplace England or Wales; birthplace of mother England or Wales.

COMMUNICABLE DISEASES.

DIVISION OF COMMUNICABLE DISEASES, OCTOBER, 1913.

Medical Inspectors. New cases visited: Diphtheria: 87 Isolation . Diagnosis 9 Scarlet fever: Isolation . 42 a. Diagnosis 12 b.Release . 18 Typhoid fever . 109 Typhoid prophylactic given . . 137 Measles. Varicella: a. Isolation . Diagnosis Ophthalmia neonatorum. 6 Tuberculosis 45 Whooping cough 2 Poliomyelitis 8 Deaths investigated. 20 Nurses. New cases visited: Diphtheria . . . 166 Scarlet fever 110 Typhoid fever 112 Whooping cough 44 Ophthalmia neonatorum. 105 Measles 69 Varicella 53 Old cases visited: Diphtheria . . . 334 Scarlet fever 341 Typhoid fever 562 Whooping cough 31 Ophthalmia neonatorum. 267 Measles 66

42

Varicella

| Release culture | s ta | ken | for d | lipht | heria | | | | | 133 |
|------------------|-------|------------|-------|-------|-------|------|---|---|---|-----|
| Vaccinations pe | erfòi | ${f rmed}$ | | | | | | | | 35 |
| Certificates gra | ntec | d . | | | | | | | ٠ | 12 |
| | | For | cible | e Re | mov | als. | | | | |
| Diphtheria . | | | | | | | | | | 1 |
| Scarlet fever | | | | | | | | | | 4 |
| Typhoid fever | | • | • | | • | | • | • | • | 2 |
| | | I | Disir | ıfect | ions | · | | | | |
| Diphtheria . | | | | | | | | | | 150 |
| Scarlet fever | | | | | | | | | | 71 |
| Phthisis . | | | | | | | | | | 178 |

October, 1913.

| October, 1913. | | | | | | | | | | | | | |
|-------------------------------|----------------------------|----------------|------------------|-----------------|-------------------------------|-------------|-----------|----------|----------|-----------------------|-----------|--------|---------------------------|
| Wards. | Anterior Poliomyelitis. | Actinomycosis, | Asiatic Cholera. | Bubonic Plague, | Cerebro-spinal Meningitis. | Diphtheria. | Glanders. | Leprosy. | Malaria. | Malignant Pustule. | Measles. | Mumps. | Ophthalmia Neonatorum. |
| 1 | | | | | | 12 | | | | | 7 | 2 | 3 |
| 2 | 1 | | | | 1 | 5 | | | | | 6 | 1 | 10 |
| 3 | | | | | | 5 | | | | | | | 4 |
| 4 | | | | | , | 2 | | | | | 1 | | 1 |
| 5 | | | | | | 3 | | | | | 1 | | .1 |
| 6 | | , | | | | 14 | | | | | 2 | 4 | 9 |
| 7 | | | | | | 1 | | | | | 1 | | 5 |
| 8 | | | | | | 8 | | | | | 4 | 51 | 19 |
| 9 | | | | | | 3 | | | | | 25 | 1 | 4 |
| 10 | | | | | | 7 | | | | | | | |
| 11 | | | • • • • | | 1. | 1 | | | | | | 2 | 2 |
| 12 | | | | | | 7 | | | | | , | | 9 |
| 13 | | | | | | . 5 | | | | | . 1 | | 9 |
| 14 | | | | | | 3 | | | | | • • • • • | | 3 |
| 15 | | | ., | | | 8 | | | | | 2 | 1 | 2 |
| 16 | 1 | | | | 1 | 3 | | | 1 | | 4 | 2 | 1 |
| 17 | 1 | | | | | | | | 1 | | 1 | 1 | 3 |
| 18 | •••• | | | | * *,4 * | 6 | | | | | 2 | 2 | 3 |
| 19 | 2 | | | | | 10 | | | | | 1 | | 1 |
| 20 | | | | | | 13 | | | • • • • | | 4 | 2 | 2 |
| 21 | • • • • | | **** | | | 6 | | | | | 3 | 1 | |
| 22 | | | | | | 5 | | | | | 4 | 4 | 2 |
| 23 | • 1 | | | | | 10 | | | 1 | | 1. | | 2 |
| 24 | 1 | | | | | 9 | | | • • • • | | •••• | | |
| 25 | 1 | | | ; • • • | | 8 | | | | | 1 | 3 | •••• |
| 26 | • • • • | , | 1 | | | 14 | | | | | | | |
| Total | 8 | | | | 3 | 168 | | | . 3 | | 71 | 77. | 95 |
| Unknown | | | | | | | | | | | | | 1 |
| Nonresidents | | | | | | 9 | | | 1 | | | | 10 |
| Grand total | 8 | | | | | 177 | | | 4 | | 71 | 77 | 105 |
| Corresponding month last year | 5 | • • • • | | | 3 | 111 | | | 4 | | 149 | 29 | 106 |

Included in the nonresidents were the following cases brought to Boston

COMMUNICABLE DISEASES.

Cases Reported.

October, 1913.

| | - | | | | | | | | | | | |
|----------------|-----------|----------|-----------|--------------|---------------------------------------|-----------------------------|----------------|---------------|------------|-----------------|---------------|--------------------------------|
| Scarlet Fever. | Smallpox. | Tetanus, | Trachoma. | Trichinosis. | Tuberculosis (Pulmonary and Miliary). | Tuberculosis (Other Forms). | Typhoid Fever. | Typhus Fever. | Varicella. | Whooping Cough. | Yellow Fever. | Wards. |
| 6 | | | 1 | | 6 | | 6 | | 7 | | | |
| 3 | | | 1 | | 12 | | 7 | | 2 | | | |
| 2 | | | | | 7 | 1 | 3 | | 1. | | | |
| 6 | , | | | | . 3 | | 13 | | | 1 | | 4 |
| | | | | | · 4 | | 2 | **** | 1 | | | 5 |
| 4 | | | | | 12 | 1 | 22 | | . 6 | 6 | | 6 |
| 1 | | | 1 | | 17 | | 1 | | , . | 1 | | 7 |
| .7 | | | | | 13 | - 1 | 2 | | 2 | 5 | | 8 |
| 3 | | | 1 | | 10 | | 12 | | | 1 | | 9 |
| 2 | | | 2 | | .9 | | 3 | | 1 | | | |
| | | | | | 4 | | | | 6 | 1 | | 11 |
| 3 | | | | | 15 | 1 | 4 | | 1 | 4 | | 12 |
| 9 | | | 1 | | 11 | 1 | | | 2 | 3 | | |
| 2 | | | | | 2 | | 4 | | . 7 | | | |
| 2 | | | | | 9 | 4 | 2 | | | 1 | | |
| 2 | *** | | | | 8 | | 2 | | 2 | 1 | | 16 |
| 4 | | | | | 11 | 1 | 2 | | 1 | 4 | | |
| 1 | | | | | 5 | 1 | 2 | | 1 | 2 | | |
| 7 | | | | | 15 | 2 | 1 | | 10 | 4 | | |
| 6 | | | 1 | | . 9 | 2 | 5 | | 7 | 11 | | 20 |
| 5 | | | | | 6 | ., | 2 | | | . 1 | | |
| 4 | | | | | 5 | | 5 | | 3 | 1 | | 22 |
| 5 | | | | | 2 | | 2 | | 3 | | | |
| 5 | ,. | | | | 11 | · 1 | 2 | | - 1 | 2. | | |
| 12 | | | | | 9 | 1 | 2 | | | | | 25 |
| 2 | | | | | 3 | 3 | | | 1 | •••• | | 26 |
| 103 | | | 8 | | 218 | 20 | 106 | | 65 | 49 | | Total |
| | | | | | | | 1 | | | | | Unknown |
| 17 | | | 5 | | 7 | 2 | 8 | | | | | Nonresidents |
| 120 | | | 13 | | 225 | 22 | 115 | | 65 | 49 | | Grand total |
| 73 | | | 1 | | 276 | 14 | 71 | | 55 | 90 | | Corresponding month last year. |

for treatment: Diphtheria, 9; scarlet fever, 17; typhoid fever, 8.

DIVISION OF CHILD HYGIENE.—OCTOBER, 1913.

1. Pre=Natal and Post=Natal Work.

| 1. 110-144 | 1. Pre | -Natal: |
|---|--|--|
| Number cases | . 50 . 75 . 12 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| Mothers attended as | follows: | |
| Family physician Hospital | . 10 . 1 | Midwife |
| Results: | | |
| Mortality, mothers . | . 0 | Mortality, babies at birth . 1 |
| Defective conditions | | follows: |
| Miscarriage Eclampsia Oedema | . 1 0 1 | Varicose veins |
| | 2. Post | t-Natal. |
| Number cases Number visits | . 1,040 | Breast-fed |
| Visits were made to on account of wrong ac | | s, where babies were not seen, moval, etc. |
| Defective conditions | | |
| Ophthalmia Improper feeding | . 28 . 58 | Skin disease 8 Miscellaneous 2 |
| Recommendations: | | |
| Family physician Hospital | 34 | Milk stations 65 |
| | _ | ection of Schools. |
| Number inspections made Number physical exam Number visits made to | ade inations homes | made |
| There were 2,151 p month, for the following | oupils exo ng causes | cluded from school during the |
| Diphtheria Scarlet fever Measles Chicken pox Whooping cough Mumps Pulmonary tuberculosis Acute tonsilitis Influenza Gonorrhea | $egin{array}{ccc} 19 \ 32 \end{array}$ | Pediculosis |

There were 22,336 cases of noncontagious disease found, subdivided as follows:

| Diseases of oral | and | respira | atory | tra | ct | | | | 4,532 |
|-------------------|------|---------|-------|-----|----|--|--|--|-------|
| Diseases of the | ear | | | | | | | | 64 |
| Diseases of the e | eye | | | | | | | | 412 |
| Diseases of the s | skin | | | | | | | | 1,094 |
| Dental caries . | | | | | | | | | 8,703 |
| Miscellaneous | | | | | | | | | 7,531 |

3. Physical Examination of Licensed Minors.

There were 1,336 girls and 1,198 boys between the ages of 14 and 16 years examined during the month. Six hundred and ninety-seven were found without defects and 1,837 with defects, as follows:

| Hearing | 2 | Pulmonary disease | | 3 |
|---------------------------|-------|--------------------|--|----|
| Eyesight | 218 | Cardiac disease . | | 26 |
| Defective nasal breathing | 5 | Orthopedic defects | | 5 |
| Hypertrophied tonsils | 101 | Skin | | 2 |
| Defective teeth | 1,740 | Miscellaneous . | | 4 |
| Defective palate | 2 | | | |

Certificates were granted at this time to 2,534 applicants.

| BACTERIOLOGICA | L LABORATORY. |
|---|--|
| DIPHTHERIA: | Gonorrhea: 36 Negative 113 Unsatisfactory 0 149 Gonorrheal Ophthalmia: Positive 62 Unsatisfactory 0 64 Other Examinations: *Positive 5 Negative 84 Unsatisfactory 0 89 Bacteriological Milk Examinations 692 Total 3,016 |
| *K-L Vir. typhoid conradi, malaria, parat | yphoids, typhoid feces and urine. |
| Examination as to S Samples examined, milk from stores milk from wagons milk brought in by citizer | 632 ns. 32 nsmination 692 |
| " butter and cheese | 62 39 62 |
| Total samples | |
| Satisfactory * on first inspection. Satisfactory on later inspection. Unsatisfactory on first inspection Unsatisfactory on later inspection. Total number of inspections. Dairies having milk rooms. Dairies without milk rooms. Number of cattle inspected. Number of dairies prohibited shipping milk toonditions of premises. | 204 |
| FOOD INSPECT | |
| Cattle inspected 954 Calves inspected 339 Sheep inspected 954 Swine inspected 6,654 | Cattle condemned (3 whole) 795 lbs. Cattle condemned (127 parts) 3,842 lbs. Calves condemned (1 whole) 32 lbs. Swine condemned (4 whole) 189 lbs. Swine condemned (322 parts) 3,619 lbs. |
| INSPECTION OF PROVISION | S.— ARTICLES CONDEMNED. |
| Meats. | Miscellaneous. |
| Veal (immature) 31 lbs. Veal (tainted) 58 lbs. Beef (tainted) 234 lbs. Pork (tainted) 881 lbs. Poultry (tainted) 170 lbs. Bear meat (tainted) 125 lbs. | Fish (tainted) |

New reports
Plumbing defects referred to Sanitary Division
Defects remedied
Milk applications approved

SANITARY INSPECTION DIVISION.

| New reports. Reinspections. New tenement house reports. Nuisances reported. Legal notices. Court cases. Fines. Stable permit granted Stable permit hearings. Dump permits granted. | 2,254 5,272 822 7,477 487 6 \$40 1 |
|--|---|
| QUARANTINE. Vessels inspected at quarantine. Total immigrants arriving in Boston. | 3 10,000 |

MONTHLY METEOROLOGICAL SUMMARY. Taken at Weather Bureau, Boston, October, 1913.

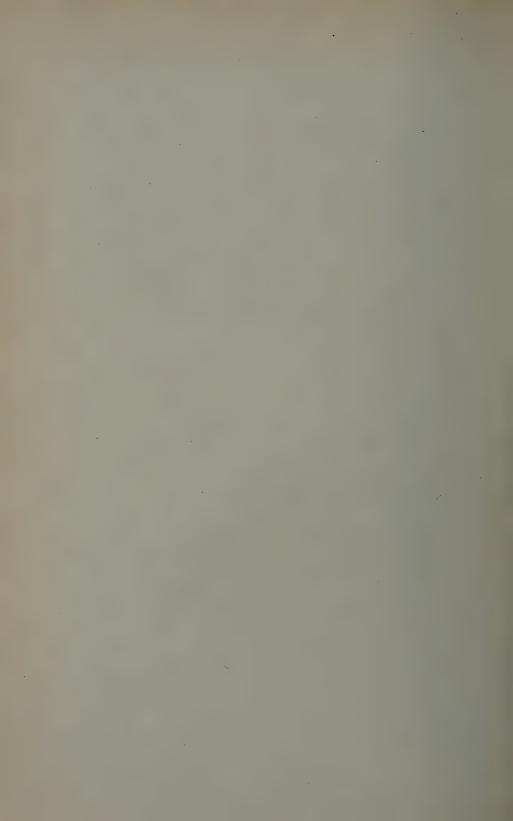
| | | MPERATU DEGREE | S | midity. | itation. | Sun- | | WIND. | |
|--------|-----------------|-------------------|-------|-------------------|---------------------|-----------------------------|--|----------------------------------|--------------------------|
| DAY. | Maximum. | Minimum. | Mean. | Relative Humidity | Daily Precipitation | Actual Hours Sun- shine. | Average Hourly Velocity. (Miles.) | Maximum Velocity. (Miles.) | Prevailing Direction, |
| 1 | 59 | 48 | 54 | 86 | т | 2.9 | 8.2 | 19 | E. |
| 2 | 67 | 58 | . 62 | 98 | .75 | 0.7 | 11.8 | 24 | s. w. |
| 3, | 71 | 56 | 64 | 88 | 0 | 9.0 | 9.0 | 20 | N. |
| 4 | 62 | 57 | - 60 | 86 | .29 | 0 | 13.2 | 24 | N. |
| 5 | 68 | 57 | 62 | 76 | 0 | 5.8 | 10.5 | 19 | N. E. |
| 6 | 61 | 56 | 58 | 96 | Т | 0 | 7.5 | 14 | N. |
| 7 | 63 | 58 | 60 | - 98 | . T | . 0 | 5.1 | 8 | N. E. |
| 8 | 65 | 59 | 62 | 98 | T | 0 | 4.0 | - 7 | . E. |
| 9 | 64 | 59 | 62 | 98 | Т | 0 | 3.2 | 6 | E. |
| 10 | 66 | 60 | 63 | 98 | 04 | 2.7 | 4.6 | 8 | E. |
| 11 | 62 | 59 | 60 | 97 | .07 | 0 | 6.1 | 13 | E. |
| 12 | 63 | 51 | 57 | 84 | .75 | 0 | 8.1 | 24 | N.W. |
| 13 | 64 | 46 | 55 | 71 | 0 | 8.7 | 12.5 | 28 | N. W. |
| 14 | 49 | 35 | 42 | 72 | .74 | 0 | 18.7 | 33 | N. W. |
| 15 | 59 | 45 | 52 | 90 | .28 | 1.5 | 16.2 | 27 | N. |
| 16 | 57 | , 55 | 56 | 90 | .51 | 0 | 16.6 | 26 | N. |
| 17 | 63 | 54 | 58 | 76 | Т | 0.8 | 7.6 | 15. | N. |
| 18 | 60 | 54 | 57 | 88 | 0 | 2.2 | 5,5 | 11 | E. |
| 19 | 63 | 55 | 59 | 94 | .31 | 0.5 | 7.1 | 16 | s. w. |
| 20 | 68 | 55 | 62 | 91 | 1.13 | 0 | 18.8 | 42 | S. |
| 21 | 59 | 45 | 52 | 52 | 0 | 9.4 | 17.6 | 34 | s. w. |
| 22 | 51 | 39 | 45 | 66 | 0 | 10.8 | 7.8 | 14 | N. W. |
| 23 | 55 | 38 | 46 | 77 | 0 | 9.1 | 7.0 | 17 | S. |
| 24 | 62 | 50 | 56 | 94 | .05 | 0 | 5.5 | 10 | E. |
| 25 | 68 | 59 | 64 | 94 | .42 | 0 | 6.2 | 13 | s. w. |
| 26 | 61 | 49 | 55 | 98 | .70 | 0 | 12.7 | 27 | N. E. |
| 27 | 68 | 50 | 59 | 84 | 0 | 10.5 | 8.5 | 14 | w. |
| 28 | 74 | 53 | 64 | 92 | Т | 3.4 | .8.8 | 20 | s. w. |
| 29 | 63 | 52 | 58 | 71 | 0 | 3.1 | 6.1 | 12 | w. |
| 30 | 56 | 42 | 49 | 72 | Т | 5.5 | 12.2 | 26 | N. W. |
| 31 | 31 46 31 | | 38 | 54 | T | 2.9 | 12.2 | 23 | N. W. |
| Totals | | _ | _ | _ | 6.04 | 89.5 | | | |
| Means | 61.8 | 51.1 | 56.5 | 84.8 | 0.19 | 26% | 9.3 | 20th | E. |

Latitude 42 degrees 21 minutes.

Longitude 71 degrees 4 minutes.

BOSTON WARD MAP.





MONTHLY BULLETIN

OF THE

HEALTH DEPARTMEN

OF THE

CITY OF BOSTON



| | | | | | PAGE |
|-------------------------------|--|--|--|---|-----------|
| Vital Statistics for November | | | | ٠ | . 255 |
| Monthly Reports | | | | | . 266 |

CITY OF BOSTON PRINTING DEPARTMENT 1913

ORGANIZATION OF THE HEALTH DEPARTMENT

FRANCIS X. MAHONEY, M. D., *Chairman*. P. H. MULLOWNEY, M. D. V.

F. H. SLACK, M. D., Secretary.



MONTHLY BULLETIN

OF THE

HEALTH DEPARTMENT OF THE CITY OF BOSTON.

All communications relating to this publication should be addressed to Bulletin of the Health Department, 100 Summer St., Boston.

Vol. 2.

BOSTON, NOVEMBER, 1913.

No. 11.

SUMMARY OF VITAL STATISTICS FOR THE MONTH OF NOVEMBER, 1913.

Boston had 829 deaths in November, 1913, compared with 934 for November of last year, and a death rate of 13.72 against 15.78 for November, 1912. Deaths of nonresidents numbered 114 for November of each year. Deducting deaths of nonresidents the corrected death rate for November, 1913, was 11.83 against 13.86 for November, 1912.

Of deaths from reportable diseases the principal decreases were tuberculosis (all forms), 18, and measles, 5; and the principal increases were scarlet fever, 7; diphtheria, 4; and typhoid fever, 2.

Other important differences were as follows:

| "Other dise | ases' | , | | | | | | | | | | 3 |
|----------------|--------|-------|-------|-------|--------|-------|------|------|--------|-----|---|---|
| Pneumonia | | | | | | | | | | | | 1 |
| Cancer . | | | | | | | | | . • | , | | 1 |
| Apoplexy as | nd sof | teni | ng o | f the | brai | in | | | | | | |
| Diarrhea an | d ent | eriti | s (ur | der i | 2 yea | ars) | | | | | | |
| Suicide . | | | | | | | | | | | | 1 |
| Ill defined. | | | | | | | | | | ٠ | ٠ | |
| November, 1913 | , incr | ease | s cor | npar | ed w | ith N | Vove | mber | , 19 | 12: | | |
| Organic hea | rt dis | ease | s, B | right | 's dis | sease | and | nep. | hritis | 8. | | (|
| Other puerp | eral o | disea | ses | | | | | | | | | , |

Ward 1 again had the lowest death rate, 5.25, and Ward 5 the highest, 22.61. There were 26 less deaths under one year than in November, 1912, 35 less under 5 years, and 4 less over 60.

Total deaths under one year numbered 120, which is 29 less than the average number for November for the preceding five years. Of these 120 deaths, 51 were due to premature birth, congenital debility, malformations and other diseases peculiar to early infancy; 25 to diarrhea and enteritis; 17 to pneumonia and broncho-pneumonia; 9 to reportable diseases and 18 to all other causes.

Of deaths under one year Ward 6 had the largest number, 10. Seventy-six were over two weeks old and of these 58 were bottle-fed.

Total deaths for the first eleven months of 1913 numbered 10,695 against 10,641 for the corresponding period of last year, giving death rates respectively of 15.89 and 16.15.

Total deaths under 1 year for the same period numbered 1,942 this year against 2,026 last year.

VITAL STATISTICS.

GENERAL STATISTICS.

Population, Ward Area, Persons to Acre, and Rates.

| | | us. | nd. Ia- | : | STILLBI | ктнѕ Ех | CCLUDED. |
|----------|---------------------|-------------------------|--|--|--|--|---|
| | Land Area in Acres. | Population, 1910 Census | Persons to Acre of Land. (Using Census Population.) | Population, Estimated, July 1, 1913.† | Death Rates, 1912. (Population, Estimated.)† | Birth Rates, 1911. (Population, Estimated.)† | Death Rates, 1912, of Children Under One Year, Per 1,000 Births, 1911. |
| * Boston | 27,674 | 686,092 | 24.8 | 735,399 | 16.17 | 25.99 | 119.35 |
| Wards 1 | 1,188 | 29,676 | 24.9 | 32,439 | 13.05 | 24.90 | 104.58 |
| 2 | 357 | 28,812 | 80.7 | 30,676 | 17.11 | 33.37 | 120.81 |
| 3 | 332 | 15,339 | 46.2 | 15,667 | 15.29 | 26.84 | 106.02 |
| 4 | 301 | 13,294 | 44.1 | 13,808 | 18.02 | 25.50 | 148.26 |
| 5 | 207 | 12,811 | 61.9 | 12,914 | 16.69 | 24.28 | 118.59 |
| 6 | 293 | 35,758 | 122.0 | 39,492 | 16.18 | 48.81 | 100.33 |
| 7 | 394 | 14,913 | 37.9 | 14,483 | 20.05 | 26.57 | 94.39 |
| 8 | 171 | 32,430 | 189.6 | 33,479 | 12.07 | 33:21 | 70.64 |
| 9 | 186 | 26,427 | 141.5 | 29,214 | 15.13 | 27.40 | 106.24 |
| 10 | 394 | 25,320 | 64.3 | 26,277 | 11.86 | 10.51 | 114.81 |
| 11 | 663 | 27,444 | 41.4 | 30,738 | 9.69 | 14.22 | 63.73 |
| 12 | 235 | 24,294 | 103.4 | 25,948 | 14.98 | 14.57 | 181.82 |
| 13 | 611 | 21,561 | 35.3 | 21,501 | 17.24 | 31.11 | 117.91 |
| 14 | 405 | 23,584 | 58.2 | 24,527 | 14.44 | 24.14 | 115.92 |
| 15 | 277 | 21,216 | 76.6 | 21,803 | 14.80 | 20.25 | 119.82 |
| 16 | 564 | 25,633 | 45.6 | 28,033 | 12.75 | 24.23 | 110.42 |
| 17 | 460 | 26,426 | 57.4 | 27,7 93 | 15.49 | 25.65 | 117.22 |
| 18 | 220 | 22,735 | 103.3 | 23,133 | 17.08 | 25.08 | 99.30 |
| 19 | 760 | 31,714 | 41.7 | 33,332 | 13.77 | 22.77 | 111.41 |
| 20 | 1,716 | 55,720 | 32.5 | 64,723 | 12.97 | 20.33 | ‡ 158.90 |
| 21 | 640 | 30,511 | 20.5 | 33,085 | 13.54 | 17,53 | 85.14 |
| 22 | 760 | 29,975 | 38.1 | 31,403 | 12.50 | 20.55 | 100.48 |
| 23 | 7,617 | 30,668 | 4.0 | 33,423 | 12.13 | 19.93 | 94.94 |
| • 24 | 3,252 | 37,749 | 11.6 | 41,695 | 12.63 | 23.73 | 103.11 |
| 25 | | | 9.7 | 29,661 | 11.95 | 24.73 | 96.21 |
| 26 | 2,869 | 15,507 | 5.4 | 16,152 | 12.29 | 29.59 | 107.30 |

^{*} Hyde Park was annexed to Boston January 1, 1912, and became Ward 26. Under "Boston," in the above table, Hyde Park statistics are included.

[†] Population estimated by arithmetical method, using the censuses of 1905 and 1910. ‡ An infant asylum is located in this ward.

VITAL STATISTICS.

November. General Summary.

| | | | | | 1913. | 1912. |
|------------------------|--|----|--|--|---------|---------|
| Total deaths | | | | | 829 | 934 |
| Population, estimated* | | | | | 735,399 | 720,031 |
| Death rate per 1,000 | | | | | 13.72 | 15.78 |
| Deaths of nonresidents | | | | | 114 | 114 |
| Corrected death rate† | | ٠. | | | 11.83 | 13.86 |

^{*}Population estimated by arithmetical method, using the censuses of 1905 and 1910.

†Nonresidents not included.

November, 1913. Statement of Deaths.

| Total number (stillbirths ex- | NATIVITY. |
|-------------------------------|-----------------------|
| cluded) 82 | United States 497 |
| | Ireland |
| Sex. | England and Wales 14 |
| | Scotland 6 |
| | Germany 14 |
| Females 40 | 08 Canada |
| | Italy 24 |
| Condition. | Russia and Poland 29 |
| Single | Sweden and Norway 17 |
| | $_{00}$ France 2 |
| | Other countries 11 |
| | Unknown 12 |
| Divorced | 4 NATIVITY OF MOTHERS |
| Unknown | 7 |
| | |
| Color. | |
| White 80 | |
| | |
| | definally 20 |
| | |
| | Puggio and Poland 59 |
| | () (|
| Under two years 13 | |
| | |
| · · | Oulci codiffics |
| Single | Russia and Poland |

| -17 | | | | | | | | | | 11101 | -uire | , ,, |
|--------------------------------|--|-------|-------|---------------|----------|----------|-----------|----------|------------|-----------|-----------|----------|
| List umber. | | Тота | ALS. | Year. | | | | | Years. | Years. | Years. | Years. |
| Abridged List Class Number. | CAUSES OF DEATH. | 1913. | 1912. | Under 1 Year. | 1 Year. | 2 Years. | 3 Years. | 4 Years. | Under 5 | 5 to 9 Ye | 10 to 14 | 15 to 19 |
| | Total, all causes ${1913 \atop 1912}$ | 829 | 934 | 120 146 | 19 32 | 13 10 | 7 6 | 5 5 | 164 199 | 16 10 | 12 13 | 14 23 |
| 1 | Typhoid fever | 6 | 4 | | | | | | | 2 | | |
| 3 | Malarial fever | | | | | | | | | | | |
| 4 | Smallpox | | | | | | | | | | | |
| 5 | Measles | 1 | 6 | | | .1. | | | 1 | | ' | |
| 6 | Scarlet fever | 7 | | | | 1 | 1 | 3 | 5 | 2 | | |
| 7 | Whooping cough | 5 | 5. | 1 | 3 | | 1 | | 5 | | | |
| 8 | Diphtheria and croup | 9 | 5 | 2 | 1 | 2 | 1 | 1 | 7 | 2 | | |
| 9 | Influenza | 1 | | | | | | | | | | |
| 11 | Cholera nostras | | | | | | | | | | | |
| 12 | Other epidemic diseases | . 1 | 3 | | | | | | | | | |
| 13 | Tuberculosis of the lungs | 68 | 86 | 2 | | · 2 | | | 4 | 1 | 1 | 5 |
| 14 | Tuberculous meningitis | 9 | 9 | 3 | 1 | 1 | 1 | | 6 | 2 | 1 | |
| 15 | Other forms of tuberculosis | 4 | 4 | 1 | | | | | 1 | | | |
| 16 | Cancer, malignant tumor | 66 | 75 | | | | | | | | | |
| 17 17a | Simple meningitis (except cerebrospinal meningitis). Cerebro-spinal meningitis | 3 2 | 3 2 | | 1 | 1 | | | 1 | | 1 | |
| 18 | Apoplexy and softening of the brain, | 49 | 58 | 1 | | | | | 1 | | | |
| 19 | Organic heart diseases | 134 | 130 | 1 | | | | | 1 | 1 | | 2 |
| 20 | Acute bronchitis | 5 | 9 | 4 | | | | | 4 | | | |
| 21 | Chronic bronchitis | 5 | 8 | | | | | | | | | |
| 22 | Pneumonia (except broncho-pneu- | 55 | 72 | 5 | 7 | | | | 12 | 1 | 1 | 1 |
| 2 2 <i>a</i> | monia). Broncho-pneumonia | 31 | 31 | 12 | 2 | 4 | | | 18 | | | |
| 23 | Other respiratory diseases | 7 | 4 | 1 | | | | | 1 | | 1 | |
| 24 | Diseases of the stomach (cancer ex- | 6 | 7 | 1 | | | 1 | | 2 | | | |
| 25 | cepted). Diarrhea and enteritis (under two | 26 | 34 | 25 | 1 | | | | 26 | | | |
| 26 | years). Appendicitis and typhlitis | 9 | 5 | | | | | | | | 3 | 1 |
| 27 | Hernia, intestinal obstruction | 9 | 9 | | | | | 1 | 1 | | | |
| 2 8 | Cirrhosis of liver | 9 | 9 | | | | | | | | | |
| 29 | Bright's disease and nephritis | 64 | 62 | | | | | | | | | |
| 30 | Diseases of women (not cancer) | 2 | 2 | | | | | | | | | |
| 31 | Puerperal septicemia | 5 | 4 | | | | | | | | | |
| 32 | Other puerperal diseases | 11 | 6 | | | | | | | | | 2 |
| 33 | Congenital debility and malforma- tions. | 40 | 41 | ~ 39 | | | | | 39 | | | 1 |
| 34 | Old age | | 3 | | | | | | | | | |
| 35 | Violent deaths | 54 | 60 | 1 | 1 | | 1 | | 3 | 3 | 4 | 2 |
| 36 | Suicide | 5 | 13 | | | | | | | | | |
| 37 | Other diseases | 121 | 157 | 21 | 2 | 1 | 1 | | 25 | 2 | | |
| 38 | Ill-defined causes | | 8 | | | | • • • • • | | | | • • • • • | |

November, 1913.

| ears. | Years. | Years. | ears. | sars. | Years. | Years. | Years. | Years. | Years. | ears. | sars. | ears. | ears. | and | S | Sex. | ist mber. |
|-----------------|-------------|-------------|-----------------|-----------------|-------------|-------------|-------------|-------------|-------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------|------------|--------------------------------|
| 20 to 24 Years. | 25 to 29 Ye | 30 to 34 Ye | 35 to 39 Years. | 40 to 44 Years. | 45 to 49 Ye | 50 to 54 Ye | 55 to 59 Ye | 60 to 64 Ye | 65 to 69 Ye | 70 to 74 Years. | 75 to 79 Years. | 80 to 84 Years. | 85 to 89 Years. | 90 Years ar over. | Males. | Females. | Abridged List Class Number. |
| 24 29 | 35 37 | 26 39 | 45 51 | 40 59 | 50 53 | 59 66 | 64 71 | 71 78 | 51 68 | 58 58 | 52 44 | 26 23 | 14 8 | 8 5 | 421 504 | 408 430 | |
| 1 | 1 | 1 | | | | 1 | | | | | | | | | 4 | 2 | 1 |
| | | | , | | | | | | | | | | | | | | - 3 |
| | | | | | | | | | | | | | | | | | 4 |
| | | | , | | | | | | | | | | | | 1 | | 5 |
| | | | | | | | | | | | | | | | 4 | 3 | 6 |
| | | | | | | | | | | | | | | | 3 | 2 | 7 |
| | , | | | | | | | | | | | | | | 5 . | 4 | 8 |
| •••• | | | | | | | | | 1 | | | | | | | 1 | 9 |
| | | | | | | | | | | | | | | | • • • • • | | 11 |
| | | | | | | | | 1 | | | | | | | 1 | | 12 |
| 9 | 8 | 5 | 12 | 3 | 7 | 3 | 5 | 2 | 1 | | 2 | | | | 36 | 32 | 13 |
| | | | | | | • • • • • | | | | | | | | | 4 | 5 | 14 |
| | | | | 1 | | | 2 | | | | | | | | 3 | 1 | 15 |
| • • • • • | | 1 | 5 | 4 | 7, | 10 | 7 | 7 | 7 | 7 | 7 | 1 | 2 | 1 | 19 | 47 | 16 |
| • • • • • | 1 | | | | | | • • • • • | | | | | • • • • • | | | 3 | | 17 |
| | | | 1 | | | | | | | | | | | | 1 | 1 | 17a |
| | | | 1 | 1 | 4 | 4 | 4 | 7 | 7 | 8 | 5 | 5 | 1 | 1 | 20 | 29 | 18 |
| 1 | 3 | 2 | 5 | 4 | 9 | 12 | 19 | 25 | 12 | 11 | 15 | 4 | 6 | 2 | 67 | 67 | 19 |
| | | | | | | | | | | 1 | | | | | 3 | 2 | 20 |
| | | | | | | | | 1 | | | | 1 | 2 | 1 | 3 | 2 | 21 |
| | | 3 | 3 | 6 | 4 | 6 | 5 | 1 | 4 | 3 | 2 | 1 | | 1 | 24 | 31 | 22 |
| | | 1 | 1 | 1 | | | 1 | 1 | 3 | 2 | | 2 | | | 17 | 14 | 220 |
| | | | | 1 | | 1 | | | | 1 | 1 | 1 | | | 4 2 | 4 | 23 |
| | | | 1 | | | . 1 | 1 | 1 | | | | | | | 17 | 9 | 25 |
| 2 | 1 | | | 1 | | | 1 | | | | | | | | 4 | 5 | 26 |
| | 1 | | 1 | | 3 | 1 | 1 | | | 3 | | | | | 4 | 5 | 27 |
| •••• | | | 1 | | 2 | 1 | 3 | 1 | 1 | 1 | | | | | 6 | 3 | 28 |
| 2 | 1 | 2 | 2 | 5 | 4 | 6 | 5 | 9 | 6 | 9 | 8 | 4 | 1 | | | 29 | 29 |
| | 1 | 1 | | | * | | | | | | | | | | | 2 | 30 |
| | 3 | | 1 | 1 | | | | | | | | | | | | | 31 |
| 1 | 2 | | | | | | | | | | | | | | | 11 | 32 |
| | | | | | | | | | | | | | | | | 19 | 33 |
| | | | | | | | | | | | | | | | | | 34 |
| 5 | 7 | 2 | 2 | 6 | 4 | 1 | 4 | 3 | | 3 | 1 | 3 | | 1 | 37 | 17 | 35 |
| | 1 | 1 | 1 | 1 | | | | 1 | | | | | | | _ | | 36 |
| 2 | | 3 | 9 | 1 | | 1 | | | 9 | 9 | 11 | 4 | 2 | 1 | 68 | 53 | 37 |
| | i | | | | | | | | | | | | | | | | |
| | 1 | | | 1 | | | | | 1 | | l | | | l | | 1 | |

| | | | | | | | | | | | 11101 | · cuire | <i>y v y</i> |
|--------------------------------|--|----------------|---------------|----------------|------------------|----------------|-----------------------|----------------|----------------|--------------|------------------|----------------|-----------------|
| Abridged List Class Number. | CAUSES OF DEATH. | Boston. | | | | | 1 | RESI | ì | 1 . | | | |
| Ab Cla | | Bo | 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | 11. |
| | All causes | 829 | 14 | 30 | 13 | 19 | 24 | . 39 | 22 | 23 | 31 | 29 | 23 |
| | Rates per 1,000 popula- {1913 tion | 13.72 15.78 | 5.25 16.18 | 11.90 13.34 | $10.10 \\ 16.42$ | 16.74 15.15 | $\frac{22.61}{17.94}$ | 12.02 16.19 | 18.48 17.48 | 8.36 9.54 | $12.91 \\ 17.17$ | 13.43 10.77 | $9.10 \\ 11.47$ |
| 1 | Typhoid fever | 6 | | | , | 1 | | 2 | | | | | |
| 3 | Malarial fever | | | | | | | | | | | | |
| 4 | Smallpox | | | | | | | | | | | | |
| 5 | Measles | 1 | | | | | | 1 | | | | | |
| 6 | Scarlet fever | 7 | | | | | | 1 | | 1 | | 1 | |
| 7 | Whooping cough | 5 | | 1 | | | | | | | | 1 | 1 |
| . 8 | Diphtheria and croup | 9 | | | | | | 1 | | 1 | | | |
| 9 | Influenza | 1 | | | | | 1 | | | | | | |
| 12 | Other epidemic diseases | 1 | | | | | | | | | | | |
| 13 | Tuberculosis of the lungs | 68 | 2 | 2 | 2 | 3 | 6 | 1 | 2 | 1 | 7 | 2 | 1 |
| 14 | Tuberculous meningitis | 9 | 1 | | | | | 2 | | | | | |
| 15 | Other forms of tuberculosis | 4 | | | | | | | | | | | |
| 16 | Cancer, malignant tumor | 66 | | 2 | 1 | 1 | 1 | 1 | | 3 | 3 | 2 | 3 |
| 17 | Simple meningitis (except cerebro-spinal meningitis). | 3 | | | | | | | | | | | -1 |
| 17a | ^ | 2 | | | | | | | | | | | |
| 18 | Apoplexy and softening of the | 49 | | | | 2 | 2 | | 1 | | | 1 | 6 |
| 19 | Organic heart diseases | 134 | 2 | 7 | 4 | 3 | 5 | 4 | 4 | 3 | 5 | 2 | 5 |
| 20 | Acute bronchitis | 5 | | 1 | | | | 2 | | | | | |
| 21 | Chronic bronchitis | 5 | | | 1 | | | | | | | | |
| 22 22a | Pneumonia (except broncho- pneumonia). Broncho-pneumonia | 55 31 | 1 | 1 | 2 | 1 | 1 | 6 | 6 2 | 3 | 5 | 2 | 1 |
| 23 | Qther respiratory diseases | 7 | | | | | | . 2 | | | | | |
| 24 | Diseases of the stomach (cancer | 6 | | | | | 1 | | | | | | |
| 2 5 | excepted). Diarrhea and enteritis (under | 26 | | 2 | | | | 3 | | | | 1 | |
| 26 | two years). Appendicitis and typhlitis | 9 | | | | 1 | | | | | | | |
| 27 | Hernia, intestinal obstruction, | 9 | | 1 | | *** *** * | | | | | | | 1 |
| 2 8 | Cirrhosis of liver | 9 | | 1 | | | 1 | | 1 | 1 | | | |
| 29 | Bright's disease and nephritis | 64 | 1 | 1 | | 3 | 2 | 1 | 1 | 2 | 2 | 6 | 2 |
| 30 | Diseases of women (not cancer), | 2 | | | | | | | | | | | |
| 31 | Puerperal septicemia | 5 | | | | | | | | 1 | | | |
| 3 2 | Other puerperal diseases | 11 | 1 | 1 | 1 | | 1 | | | | 1 | | |
| 33 | Congenital debility and mal- formations. | 40 | 2 | 4 | 1 | 1 | 1 | 3 | 1 | 5 | 1 | 2 | |
| 34 | Old age | | | | | | | | | | | | |
| 35 | Violent deaths | 54 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | | | 2 | |
| 36 | Suicide | 5 | | | | 1 | | | | | | | |
| 37 | Other diseases | 121 | 1 | 3 | | 1 | 1 | 4 | 3 | 2 | 6 | 7 | 3 |
| 3 8 | Ill defined causes Total deaths under one year | 120 | 4 | 8 | 1 | 1 | 3 | 10 | 3 | 6 | 6 | | |
| | and downs under one year. | 120 | - | | 1 | 1 | 0 | 10 | . 0 | 0 | 0 | 4 | |

November, 1913.

| | WARD RESIDENCE | | | | | | | | | | | | | | 70 | | | |
|----------------|----------------|----------------|-----------------|------------------|----------------|----------------|----------------|------------------|-----------------------|---------------|--------------|------------------|----------------|----------------|--------------------------|---------------|----------|--------------------------------|
| | | | | | | WARD | RESI | DENCE | . • | | | | | | Boston, Ward Unknown. | Nonresidents. | Unknown. | Abridged List Class Number. |
| 12. | 13. | 14. | 15. | 16. | 17. | 18. | 19. | 20. | 21. | 22. | 23. | 24. | 25. | 26. | Boste | Nonr | Unkr | Abrid |
| 28 | 29 | 23 | 17 | 24 | 35 | 22 | 30 | 57 | 33 | 25 | 26 | .52 | 27 | 14 | 1 | 114 | 5 | |
| 13.13 10.52 | 16.41 17.53 | 11.41 15.56 | $9.49 \\ 15.76$ | $10.42 \\ 14.27$ | 15.32 17.34 | 11.57 16.39 | 10.95 12.97 | $10.71 \\ 12.18$ | $\frac{12.14}{10.18}$ | 9.69 14.54 | 9.46 9.34 | $15.17 \\ 11.43$ | 11.08 13.57 | 10.55 12.97 | | | | |
| | | | | | | | | - 1 | | | | | | | | 2 | | 1 |
| | | | | | | | | | | | | | | | | | | 3 |
| • • • • • | | | | | | | | | | | | | | | | | | 4 |
| | | | | | | | | | | | ' | | | | | | | 5 |
| • • • • • | 1 | | | | | | | 2 | | • • • • • | | 1 | • • • • • | | | | • • • | 6 |
| | | | | | | | | | 1 | | | | | 1 | | | | 7 |
| | 2 | | | | 1 | | | | | | | | | 2 | | 2 | | 9 |
| •••• | | | | | | | | | | | | | | 1 | | • • • • | | 12 |
| 2 | 2 | | 2 | | 1 | 3 | 3 | 8 | 4 | 1 | 2 | 6 | 3 | | | 2 | | 13 |
| 1 | | | | | | 1 | 1 | 1 | | 1 | 1 | | | | | | | 14 |
| | | | | | | | | 1 | | 1 | | 1 | | | | 1 | | 15 |
| 3 | 1 | 1 | | 4 | 1 | 1 | 1 | . 4 | 2 | 3 | 3 | 8 | 1 | . 1 | | 15 | | 16 |
| | | | | | | | 1 | | | | | | 1 | | | 1 | | 17 |
| | | | | | | | | | | 1 | | 1 | | | | | | 17a |
| 3 | | 2 | 2 | | 5 | 2 | 2 | 5 | 3 | 1 | 3 | 3 | | 1 | | 5 | | 18 |
| 6 | 5 | 7 | 1 | 5 | 5 | 5 | 3 | 12 | 4 | 4 | . 8 | 6 | 8 | 3 | | 7 | 1 | 19 |
| | | 1 | | | | | | | | | | 1 | | | | | | 20 |
| • • • • • | | . 1 | | | | | | 1 | | | 1 | 1 | | | | | | 21 |
| | 1 | .4 | 3 | 1 | 3 | | 3 | 3 | 1 | | | | 3 | | | 7 | | 22 |
| | 4 | 1 | | · · · · · | 3 | | . 3 | | 1 | 1 | | | 1 | | | 4 | | 22a |
| | 1 | | 1 | | 1 | | • • • • • | | 1 | | | | | • • • • • | | 1 | | 23 |
| 1 | 1 | 1 | 1 | 1 | | | 2 | 1 | | | | 3 | | | 1 | 8 | 2 | 25 |
| | | 1 | | 1 | | | 1 | 1 | | 1 | | 9 | | | 1 | 4 | | 26 |
| 2 | 1 | | | 1 | | 1 | | | | | | 1 | | | | 1 | | 27 |
| | | | 1 | | 1 | | 1 | 1 | | 1 | | | | | | | | 28 |
| 1 | | 1 | | 2 | 3 | 2 | 3 | 3 | 6 | 5 | | 5 | 2 | | | 8 | 2 | 29 |
| | | 1 | 1 | | | | | | | | | | | | | | | 30 |
| | | | | | | 1 | | 1 | | | | 1 | | | | 1 | | 31 |
| | 1 | | | | | | | 1 | | | | 1 | | | | 3 | | 32 |
| 2 | | | 2 | 2 | 2 | | 2 | | 2 | | | . 1 | | 1 | | 5 | | 33 |
| | | | | | | | | | | | | | | | | | | 34 |
| 1 | 5 | | 1 | 3 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 3 | 2 | 4 | | | | 1 |
| | | | | | | | 1 | 1 | | | | | | | | 2 | | 1 |
| 6 | 4 | 3 | 1 | 5 | 5 | 3 | 2 | . 9 | 7 | 4 | 7 | 9 | 6 | | | 19 | | |
| | | | | | | | | | | | | | | | | | | 38 |
| 3 | 4 | 3 | 5 | 3 | 4 | 1 | 6 | 5 | 4 | 2 | 3 | 5 | | 1 | 1 | 22 | 2 | |

VITAL STATISTICS. November, 1913, Infant Mortality.

| st Class | | November Totals, Under 1 Year. | | у. | | | Week. | 82 | cs. | Weeks to I Month. | ths. | ths. | ths. | ths. | Months. | AND | | ts. |
|--------------------------|--------------------------------|---|---------------|--------------|------------|------------|-----------------|------------|-------------|-------------------|--------------|--------------|--------------|--------------|---------|-------------|-------------|--------------|
| Detailed List Number. | CAUSES OF DEATH. | 1 Y | EAR. 1912. | Under 1 Day. | to 2 Days. | to 3 Days. | Days to 1 Week. | to 2 Weeks | to 3 Weeks. | | to 2 Months. | to 3 Months. | to 6 Months. | to 9 Months. | to 12 | Breast Fed. | Bottle Fed. | Nonresidents |
| A | · . | 1710. | | 12 | | 7 | ~ | | 7 | 2 | 1000 | 7 | 63 | 9 | 0 | m . | m | Z |
| | Total | 120 | 146 | 22 | 2 | 4 | 7 | 9 | 4 | 3 | 15 | 11 | 20 | 13 | 10 | 18 | 58 | 22 |
| | Male | 66 | 85 | 1.3 | | 1 | 5 | 5 | 2 | . 3 | 10 | 8 | 8 | 6 | 5 | 8 | 34 | 13 |
| | Female | 54 | 61 | 9 | 2 | 3 | 2 | 4 | 2 | | 5 | 3 | 12 | 7 | 5 | 10 | 24 | 9 |
| | White | 116 | 143 | 21 | 2 | 4 | 7 | 8 | 4 | 3 | 14 | 11 | 20 | 13 | 9 | 21 | 56 | 22 |
| | Colored | 4 | 3 | 1 | | | | 1 | | | 1 | | | | 1 | | 2 | |
| 1 | Typhoid fever | | | | | | ' | | | | | | | | | | | |
| 5 | Smallpox | | | | | | | | | | | | | | | | | |
| 6 | Measles | | 1 | | | | | | | | | | | ٠ | | | | |
| 7 | Scarlet fever | | | | | | | | | | | | | | | | | |
| 8 | Whooping cough | 1 | 2 | | | | | | | | | | | 1 | | | 1 | |
| 9 | Diphtheria and croup | 2 | | | | | | | | | | | 1 | | 1 | | . 2 | 2 |
| 10 | Influenza | | | | | | | | | | | | | | | | | |
| 14 | Dysentery | | | | | | | | | | | | | | | | | |
| 18 | Erysipelas | | 1 | | | | | | | | | | | | | | | |
| 19 | Other epidemic diseases | | | | | | | | | | | | | | | | | |
| 20 | Pus-infection and septicemia, | 2 | | | | | | | | | | | | 1 | 1 | | 2 | |
| 24 | Tetanus | | | | | | | | | | | | | | | | | |
| 28 | Tuberculosis of the lungs | | 1 | | | | | | | | | | 1 | | | | 1 | |
| 29 | Acute miliary tuberculosis | 1 | | | <u></u> | | | | | | | | 1 | | | | 1 | |
| 30 | Tuberculous meningitis | | 3 | | | | | | | | | 1 | | 1 | .1 | | 3 | |
| $31 \\ 35$ | Other forms of tuberculosis | . 1 | | | | | | | | | | | 1 | | | | 1 | 1 |
| 36 | Rickets | | | | | | | | | | | | | | | | | |
| 37 | Syphilis | 1 | . 4 | | | | | | | , | | , 1 | | | | | . 1 | |
| 38 | Gonococcus infection | | | | | | | , | | | | | | | | | | |
| 61 | Simple meningitis | | | | | | | | | | | | | | | | | |
| 61a | Cerebro-spinal fever | | . 1 | | | | | | | | | | | | | | | |
| 63a | Acute poliomyelitis | | | | | | | | | | | | | | | | | |
| 71 | Convulsions | | | | ٠ | | | | • • • | | | | | | | | | 1 |
| 76 | Diseases of the ears | | | 2 | | | | | | | | | 1 | | | | 1 | |
| 79 | Organic diseases of the heart, | | | - • • | | | | | | | | | | | 1 | 1 | . 1 | |
| 89 | Acute bronchitis | | | | | | | 1 | ١ | . 1 | | | 1 | 2 | | | | |
| 91 | Broncho-pneumonia | | | | | | | | | | 3 | | | | ì | | | 1 |
| 92 | Pneumonia | | 11 | ١ | | | | | | | | . 1 | 1 8 | 3 | . 1 | 1 2 | 3 8 | 3 |
| 93 | Pleurisy | | | | | | | | | | | | | | | | | |
| 103 | Other diseases of stomach | 1 | 2 | 1 | | | | | | | | | | 1 | | 1 | | · ··· |

VITAL STATISTICS.

November, 1913, Infant Mortality.— Concluded.

| Detailed List Class Number. | Causes of Death, | Tor | MBER ALS, DER EAR. | ler I Day. | 2 Days. | 3 Days. | Days to I Week. | 2 Weeks. | 3 Weeks. | Weeks to I Month. | 2 Months. | 3 Months. | 6 Mouths. | 9 Months. | 12 Months. | 2 W AND | tle Fed. | Nonresidents. |
|--------------------------------|--|-------|-----------------------------|------------|---------|---------|-----------------|----------|----------|-------------------|-----------|-----------|-----------|-----------|------------|------------|----------|---------------|
| Det | | 1913. | 1912. | Under | I to | 2 to | 3 D | 1 to | 2 to | 3 W | 1 to | 2 to | 3 to | 6 to | 9 to | Breast | Bottle | Nor |
| 104 | Diarrhea and enteritis | 25 | 32 | | | | | | 1 | | 8 | 6 | 4 | 5 | 1 | 3 | 22 | 8 |
| 108 | Appendicitis and typhlitis | | | | | | | | | | | | | | | | | |
| .109 | Hernias, intestinal obstruction, | | 1 | | | | | , | | | | | | | . , . | | | |
| 117 | Simple peritonitis | | 1 | | | | | | | | | | | | | | | |
| 119 | Acute nephritis | | 2 | | | | | | | | | | | | | | | |
| 143 | Furuncle | | | ! | | | | | | | | | | | | | | |
| 144 | Acute abscess | | | | | | | | | | | | | | | | | |
| 145 | Other diseases of skin, etc | | | | | | | | | | | | | | | | | |
| 150a | Hydrocephalus | | 2 | | | | | | | | | | | | | | | |
| b | Congenital malformations of | 4 | 8 | | | 1 | | 1 | 1 | | 1 | | | | | 2 | | |
| · с | heart. Other malformations | 3 | 1 | | | | | | 1 | 1 | | 1 | | | | | 3 | 1 |
| 151a | Premature birth | 23 | 19 | 12 | 2 | 1 | 2 | 4 | 1 | | 1 | | | | | 1 | 1 | 1 |
| b | Congenital debility | 9 | 11 | | | | 2 | 2 | | | 1 | | 3 | 1 | | | 5 | 3 |
| 1 52a | Injuries at birth | 6 | 9 | 6 | | | | | | | | | | | | | | |
| b | Other causes peculiar to early | 6 | 5 | 3 | | 1 | | 1 | | 1 | | | | | | 1 | | 1 |
| 167 | | | | | | | | | | | | | | | | | | |
| 168 | cepted). Absorption of deleterious gases, | | 1 | | | | | | | | | | | | | | | |
| 172 | Traumatism by fall | 1 | | | | | | | | | | | . 1 | | | | 1 | 1 |
| 182) 184 | Homicide | | | | | | | | | | | | | | | | | |
| 187 189 | Ill-defined diseases | | 3 | | | | | | | | | . | | | | | | |
| , | Other causes | 6 | 3 | | | 1 | 3 | | | | 1 | | | 1 | | | 2 | 2 |
| | Breast fed * | 18 | 30 | | | | | | 1 | 2 | 6 | | 5 | 2 | 2 | 18 | | |
| | Bottle fed * | 58 | 68 | | | | | | 3 | 1 | 9 | 11 | 15 | 11 | 8 | | 58 | 18 |
| | Nonresidents | 22 | 16 | 1 | | | 1 | 2 | 1 | 1 | 3 | . 3 | - 5 | 3 | 2 | | 18 | 22 |
| | | l | | | | | | | 1 | | | | | 1 | | | | |

^{*} Aged two weeks and over.

Additional Deaths for Other Months.

- Sept., 1913.—1 male; accidental drowning; white; aged 52 years; single; residence unknown; born in Ireland;
 - mother born in Ireland.

 1 female; Bright's disease; white; aged 24 years; single; residence Ward 11; born in Canada; mother born in Canada.
 - 1 male; alcoholism; white; aged 52 years; widower; residence unknown; born in Ireland; mother born in Ireland.
- Oct., 1913.—1 male; alcoholism; white; aged 50 years; condition unknown; residence Ward 6; birthplace unknown; birthplace of mother unknown.

 1 male; cerebral hemorrhage; white; aged 71 years; condition unknown; residence unknown; born in United States; mother born in England or Wales.

 1 male; absorption of deleterious gases, white; aged 32 years; single; nonresident; born in Canada; mother born in Canada.

 - 1 male; accidental drowning; white; aged 35 years; condition unknown; residence unknown; birthplace unknown; birthplace of mother unknown.
 - 1 male; homicide by other means; white; aged 54 years; married; residence Ward 21; born in Canada; mother born in Ireland.

DIVISION OF COMMUNICABLE DISEASES, NOVEMBER, 1913.

Medical Inspectors. New cases visited: Diphtheria: Isolation . 99 Diagnosis b. 4 Scarlet fever: Isolation . 54 q_{i} b. Diagnosis 9 Release . 32 c. Typhoid fever . . 101 Typhoid prophylactic given . 25 Measles. 8 Varicella: Isolation . a. Diagnosis Ophthalmia neonatorum. Tuberculosis 10 Whooping cough Poliomyelitis 10 Deaths investigated. 26 Vaccinations performed . 7 Certificates granted -5 Nurses. New cases visited: Diphtheria . 133 Scarlet fever 159 Typhoid fever 55 Whooping cough 28 Ophthalmia neonatorum. 106 Measles 50 Varicella 49 Old cases visited: Diphtheria. 276 Scarlet fever 418 Typhoid fever . 152 . . Whooping cough 40 Ophthalmia neonatorum . 191

(266)

| Measles | | | • | | | | | | | | 100 |
|--------------|------|------|-------|-------|-------|-------|------|---|---|---|-----|
| Varicella | | | | | | | | | | | 36 |
| Release cul | ture | s ta | ken f | for d | iphtl | heria | • | ٠ | ٠ | ٠ | 101 |
| | | | For | cible | Re | mov | als. | | | | |
| Scarlet feve | er | | | | | | | | | | 4 |
| Tuberculos | is | | | | | | ٠ | | ٠ | | 1 |
| | | | I | Disin | ıfect | ions | ;. | | | | |
| Diphtheria | | | | | | | | | | | 130 |
| Scarlet feve | er | ٠. | | | | | | • | • | | 108 |
| Phthisis | | | | | | | | | | | 146 |

| | | | | | | | | | | | | | _ . |
|-------------------------------|----------------------------|----------------|------------------|-----------------|-------------------------------|-------------|-----------|----------|----------|-----------------------|----------|--------|---------------------------|
| Wards. | Anterior Poliomyelitis. | Actinomycosis. | Asiatic Cholera. | Bubonic Plague. | Cerebro-spinal Meningitis. | Diphtheria. | Glanders. | Leprosy. | Malaria. | Malignant Pustule. | Measles. | Mumps. | Ophthalmia Neonatorum. |
| 1, | | | | | | 3 | | | | | 18 | 6 | 1 |
| 2 | 1 | | | | | 8 | | | | | 16 | 1 | 11 |
| 3 | | | | | | 1 | | | | | | | . 3 |
| 4 | | | | | | 3 | | | | | 3 | 1 | 4 |
| 5 | | | | | | | | | | | | | 1 |
| 6 | 1 | | | | | 12 | | | | | 6 | 5 | 14 |
| 7 | | | | | | 2 | | | | | | | 2 |
| 8 | | | | | | 8 | | | | | 8 | 61 | 19 |
| 9 | | | | | | 3 | | | | | 9 | 4 | 3 |
| 10 | | | | | | 2 | | | | | 1 | | |
| 11 | | | | | | | | | | | | 1 | 5 |
| 12 | | | | | | 9 | | | | | 1 | | 2 |
| 13 | | | | | | 4 | | | | | 2 | 2 | 9 |
| 14 | | | | | | 3 | | | | | 1 | | 9 |
| 15 | | | | | | | | | | | 2 | . 2 | 3 |
| 16 | | | | | | | | | | | | 3 | 1 |
| 17 | | | | | | .7 | | | | | 1 | 4 | 4 |
| 18 | | | | | | 1 | | | | | 1 | 3 | 3 |
| 19 | 2 | | | | | 9 | | | | | 2 | 6 | 4 |
| 20 | | | | | | 18 | | | | | 3 | 9 | 3 |
| 21 | | | | | | 5 | | | | | | 4 | 2 |
| 22 | | | : | | 1 | 4 | | | | | 4 | 3 | 6 |
| 23 | | | | | | 10 | | | | | 2 | | 3 |
| 24 | | | | | . 1 | 9 | | | | | 3 | 3 | 1 |
| 25 | | , | | | | 2, | | | | | 3 | 2 | 1 |
| 26 | | | | | | 8 | | | | | | | 1 |
| Total | 4 | | | | 2 | 131 | | | | | 86 | 120 | 115 |
| Unknown | | | | | | | | | | | | | |
| Nonresidents | 3 | | | | | 15 | | | | | 1 | | |
| Crand total | | | | | | 140 | | | | | 07 | 120 | 125 |
| Grand total | 7 | | | | 2 | 146 | | | | | 87 | 120 | 115 |
| Corresponding month last year | 3 | | | | 1 | 168 | | | 1 | | 384 | 41 | 96 |

Included in the nonresidents were the following cases brought

COMMUNICABLE DISEASES.

Cases Reported.

November, 1913.

| Scarlet Fever. | Smallpox. | Tetanus. | Trachoma. | Trichinosis. | Tuberculosis (Pulmonary and Miliary). | Tuberculosis (Other Forms). | Typhoid Fever. | Typhus Fever. | Varicella. | Whooping Cough. | Yellow Fever. | Wards, |
|----------------|-----------|----------|-----------|--------------|---|-----------------------------|----------------|---------------|------------|-----------------|---------------|--------------------------------|
| 13 | | | | | 6 | 2 | 3 | | 4 | | | |
| 5 | | | 1 | | 10 | | 3 | | 4 | 1 | | |
| | | | | | 8 | | 2 | | 6 | | | |
| . 7 | | | | | 7 | 1 | 1 | | 1 | | | 4 |
| 3 | | | | | 3 | | 2 | | 1 | | | 5 |
| 5 | | | | | 23 | 2 | 5 | | 3 | 9 | | 6 |
| | | | | | 12 | 1 | | | | | | 7 |
| 11 | | | 1 | | 15 | 2 | 2 | | 4 | 8 | | 8 |
| 1 | | | | | 18 | | 2 | | | | | 9 |
| 1 | | | | | 11 | | 2 | | | 6 | | 10 |
| 4 | | | | | 6 | | | | 1 | 2 | | 11 |
| 20 | | | | | 11 | 1 | 1 | • • • • | 1 | 1 | | 12 |
| 11 | | | | | 6 | | | | 2 | 1 | | 13 |
| 12 | | | 1 | | 7 | | 3 | | 8 | | | |
| | | | | | 7 | | 5 | | 1 | | | |
| 2 | | | | | 6 | 1 | | | | | | 16 |
| 8 | | | | | 10 | | | | 5 | | | 17 |
| 5 | | | 1 | | 8 | | 1 | | 7 | 1 | • • • • | 18 |
| 8 | | | | | 5 | | 2 | | 14 | | • • • • | 19 |
| 4 | | | | | 14 | 3 | 2 | | 2 | 3 | | 20 |
| 5 | | | | | 5 | | 2 | | 1 | 4 | | 21 |
| 4 | | | | | 8 | 2 | | | 14 | | | 22 |
| | | • •,• • | | | 6 | 1 | 1 | | 4 | | • • • • | 23 |
| 14 | | | | | 5 | 1 | 2 | | 6 | | | 24 |
| 18 | • • • • • | | | | 4 | | 2 | | 5 | | | 25 |
| 1 | | | | | 1 | 15 | | | | | | 26 |
| 162 | | | 4 | | 222 | 32 | 43 | | 94 | 36 | | Total |
| • • • • • | | | | | | | | | | | | |
| 9 | | | 1 | | 5 | 2 | | | | 4 | | Nonresidents |
| 171 | | | 5 | | 227 | 34 | 43 | | 94 | 40 | | Grand total |
| 124 | 1 | | 5 | | 261 | 22 | 30 | | 125 | 118 | | Corresponding month last year. |

to Boston for treatment: Diphtheria, 15; scarlet fever, 9.

DIVISION OF CHILD HYGIENE.—NOVEMBER, 1913.

1. Pre=Natal and Post=Natal Work.

| 1. Fie-Matai a | and rost-ratar work. |
|--|---|
| 1. | Pre-Natal. |
| Number cases Number visits Babies born | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| Mothers attended as follo | ows: |
| Family physician Hospital | 6 Midwife |
| Results: | |
| Mortality, mothers | 0 Mortality, babies at birth . 0 |
| Defective conditions note | d as follows: |
| Miscarriage | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| 2. | Post-Natal. |
| Number cases 1,6 Number visits 1,7 | 046 Breast-fed 894 701 Bottle-fed 67 Both feedings 85 |
| Visits were made to 72 ho on account of wrong address | omes, where babies were not seen, s, removal, etc. |
| Defective conditions note | d as follows: |
| Ophthalmia Improper feeding | 26 Skin disease 2 20 Miscellaneous 2 |
| Recommendations: | |
| Family physician | 32 Milk stations 79 |
| 2. Medical In | spection of Schools. |
| Number inspections made Number physical examination Number visits made to home | ons made |
| There were 1,562 pupils month, for the following cau | excluded from school during the uses: |
| Whooping cough | Pediculosis |

There were 19,768 cases of noncontagious disease found, subdivided as follows:

| Diseases of oral | and | respir | atory | tra | ct | | | | 4,289 |
|-------------------|------|--------|-------|-----|----|--|--|--|-------|
| Diseases of the | ear | | | | | | | | 55 |
| Diseases of the | eye | | | | | | | | 389 |
| Diseases of the s | skin | | | | | | | | 1,141 |
| Dental caries . | | | | | | | | | 7,099 |
| Miscellaneous | ٠. | | | | | | | | 6,795 |

3. Physical Examination of Licensed Minors.

There were 501 girls and 628 boys between the ages of 14 and 16 years examined during the month. Three hundred and twenty-seven were found without defects and 802 with defects, as follows:

| 1 |
|---|
| ~ |
| 0 |
| 0 |
| 2 |
| 2 |
| 0 |
| 0 |
| 0 |
| |

Certificates were granted to 1,129 applicants.

BACTERIOLOGICAL LABORATORY.

| BACTERIOLOGICA | L LABORATORY. |
|--|---|
| DIPHTHERIA: Positive for diagnosis | Gonorrhea: |
| INCOPCION OF MI | LV VINEGAD PEC |
| INSPECTION OF MI | |
| Examination as to St | tatute Requirements. |
| " milk brought in by citizen " milk for bacteriological ex " bacteriological ice cream. " " vinegar " " butter and cheese | . 460 660 s. 23 amination 507 40 59 48 33 |
| Total samples | 1,830 |
| | |
| INSPECTION Satisfactory * on first inspection. Satisfactory on later inspection. Unsatisfactory on first inspection. Unsatisfactory on later inspection. Unsatisfactory on later inspection. Total number of inspections. Dairies having milk rooms. Dairies without milk rooms. Number of cows inspected. Number of dairies prohibited shipping milk to conditions of premises. *"Satisfactory" means having a score of a card. | 198 224 134 53 |
| INSPECTED AT BRI | GHTON ARATTOID |
| Cattle inspected | Cattle condemned (107 parts)3,085 lbs. Cattle condemned (6 whole)1,650 lbs. Calves condemned (2 whole)62 lbs. Sheep condemned |
| INCORPORTON OF PROJUCTOR | A DOWNER OF CONTRACT |
| INSPECTION OF PROVISIONS | s.— ARTICLES CONDEMNED. |
| Meats. | Miscellaneous. |
| Veal (tainted) 5 lbs. Mutton (tainted) 30 lbs. Beef (tainted) 51 lbs. Pork (tainted) 42 lbs. Poultry (tainted) 23,644 lbs. Rabbits (tainted) 362 lbs. | Vegetables 3½ bush. |
| New reports. Plumbing defects referred to Sanitary Divisi Defects remedied. Milk applications approved. (27 | 70 |

SANITARY INSPECTION DIVISION.

| Reinspections. (New tenement house reports. | 2,233 6,551 902 7,858 365 11 \$95 6 3 4 |
|---|--|
| QUARANTINE. Vessels inspected at quarantine. Total immigrants arriving in Boston. | 47 5,460 |

MONTHLY METEOROLOGICAL SUMMARY. Taken at Weather Bureau, Boston, November, 1913.

| | | MPERATU DEGREES MRENHE | 1 | midity. | itation. | Sun- | | WIND. | |
|--------|----------|------------------------------|-------|-------------------|---------------------|-----------------------------|--|----------------------------------|--------------------------|
| DAY. | Maximum. | Minimum. | Mean. | Relative Humidity | Daily Precipitation | Actual Hours Sun- shine. | Average Hourly Velocity. (Miles.) | Maximum Velocity. (Miles.) | Prevailing Direction, |
| 1 | 50 | 30 | 40 | 54 | 0 | 10.4 | 14.4 | 27 | w. |
| 2 | 54 | 42 | 48 | 64 | 0 | 6.5 | 7.1 | 14 | N. W. |
| 3 | 55 | .41 | 48 | 68 | 0 | 0.5 | 7.8 | 17 | S. |
| 4 | 56 | 42 | 49 | 70 | .01 | 4.8 | 15.9 | 30 | w |
| 5 | 50 | 35 | 42 | 48 | . 0 | 10.2 | 12.3 | 25 | N. W. |
| 6 | 68 | 39 | 54 | 53 | 0 | 10.2 | 9.0 | 14 | W. |
| 7 | 70 | 44 | 57 | . 69 | 0 | 9.5 | 8.0 | 14 | s. w. |
| 8 | 58 | 46 | .52 | 95 | T | 2.0 | 6.5 | 13 | E. |
| 9 | 60 | 54 | 57 | 94 | .43 | 0 | 16.5 | 30 | S. E. |
| 10 | 55 | 37 | 46 | 64 | 0 | 2.0 | 15.2 | 29 | S. W. |
| 11 | 44 | 32 | 38 | 68 | 0 | 8.2 | 11.5 | 20 | W. |
| 12 | 49 | 34 | 42 | 57 | 0 | 7.2 | 8.3 | 14 | W. |
| 13 | 59 | 40 | 50 | 62 | 0 | 0.1 | 9.8 | 16 | S. W. |
| 14 | 54 | 37 | · 46 | 78 | .06 | 0.0 | 10.8 | 21 | $\mathbf{W};$ |
| 15 | 43 | 33 | 38 | 60 | 0 | 9,8 | 9.6 | 21 | N. W. |
| 16 | 39 | 34 | 36 | 90 | .18 | 0 | 6.0 | 12 | N. |
| 17 | 52 | 36 | 44 | 68 | 0 | 9.8 | 9,2 | 14 | N.W. |
| 18 | 64 | 39 | 52 | 58 | 0 | 8.9 | 10.8 | 16 | W. |
| 19 | 58 | 50 | 54 | 74 | . 0. | 0.5 | 7.7 | 17 | E. |
| 20 | 71 | 54 | 62 | 68 | .16 | 8.0 | 13.6 | 30 | W. |
| 21 | 54 | 45 | 50 | 75 | 0 | 9.3 | 8.9 | 14 | N. W. |
| 22 | 68 | 45 | 56 | 81 | 0 | 7.3 | 10.2 | 18 | s. w. |
| 23 | 71 | 49 | - 60 | 64 | Т | 5.5 | 15.1 | 29 | s. w. |
| 24 | 49 | .37 | 43 | 76 | T | 4.0 | 8.8 | 16 | N. W. |
| 25 | 43 | 37 | 40 | 70 | 0 | 9.5 | 7.3 | 26 | N. W. |
| 26 | 51 | .33 | 42 | 60 | Т | 0.5 | 12.0 | 17 | N. W. |
| 27 | 36 | 27 | 32 | 62 | 0 | 3.8 | 10.6 | 17 | N. |
| 28 | 42 | 32 | 37 | 72 | Т | 0 | 8.0 | 13 | S. E. |
| 29 | 44 | 39 | 42 | 94 | 1.29 | 0 | 13.1 | 21 | N. |
| 30 | 44 | . 35 | 40 | 85 | Т | 2.0 | 11.5 | 21 | N. |
| 31 | | | | | | | | | |
| Totals | | | | durant. | 2.15 | 150.5 | generals | | - |
| Means | 53.7 | 39,3 | 46.6 | 70.0 | 0.07 | 51% | 10.5 | 4th | w. |

Latitude 42 degrees 21 minutes.

Longitude 71 degrees 4 minutes.

BOSTON WARD MAP.





MONTHLY BULLETIN

OF THE

HEALTH DEPARTMENT

OF THE

CITY OF BOSTON



| • | | | | PAGE |
|---|----|--|---|-------|
| Vital Statistics for December | | | ٠ | . 279 |
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CITY OF BOSTON PRINTING DEPARTMENT 1913

ORGANIZATION OF THE HEALTH DEPARTMENT

FRANCIS X. MAHONEY, M. D., *Chairman*. P. H. MULLOWNEY, M. D. V.

F. H. SLACK, M. D., Secretary.

MONTHLY BULLETIN

OF THE

HEALTH DEPARTMENT OF THE CITY OF BOSTON.

All communications relating to this publication should be addressed to Bulletin of the Health Department, 100 Summer St., Boston.

Vol. 2.

Boston, December, 1913.

No. 12.

SUMMARY OF VITAL STATISTICS FOR THE MONTH OF DECEMBER, 1913.

Boston had 1,119 deaths in December, 1913, compared with 1,002 for December of last year, and a death rate of 17.92 against 16.39 for December, 1912. Deaths of nonresidents numbered 114 for December, 1913, compared with 127 for December of the preceding year. Deducting deaths of nonresidents the corrected death rate for December, 1913, was 16.09, against 14.31 for December, 1912.

Of deaths from reportable diseases the principal decreases were measles, 30; whooping cough, 8, and diphtheria, 6; and the principal increase was tuberculosis (all forms), 14,

Other important differences were as follows:

December, 1913, decreases compared with December, 1912:

| Pneumonia (all forms) | | | 18 |
|--|---|-----|----|
| Bronchitis | | · . | 8 |
| December, 1913, increases compared with December, 1912 | | | |
| - | | | - |
| "Other diseases" | • | | 58 |
| Organic heart diseases, Bright's disease and nephritis | | | 57 |
| Violent deaths | | | 26 |
| Cancer | | | 10 |

Ward 25 had the lowest death rate, 11.91, and Ward 7 the highest, 24.39. There were 6 more deaths under one year than in December, 1912, 36 less under 5 years, and 56 more over 60.

Total deaths under one year numbered 166, which is 13 more than the average number for December for the preceding five years. Of these 166 deaths, 73 were due to premature birth, congenital debility, malformations and other diseases peculiar to early infancy; 37 to pneumonia and broncho-pneumonia; 20 to diarrhea and enteritis; 7 to reportable diseases and 29 to all other causes.

Of deaths under one year Ward 1 had the largest number, 11. Ninety-nine were over two weeks old and of these 72 were bottle-fed.

VITAL STATISTICS.

GENERAL STATISTICS. Population, Ward Area, Persons to Acre, and Rates.

| | | 18. | ld. | | STILLBIRTHS EXCLUDED. | | | | |
|-----------------|---|---------|--|---|--|--|---|--|--|
| , | Land Area in Acres. Population, 1910 Census | | Persons to Acre of Land (Using Census Popula- tion.) | Population, Estimated July 1, 1913.† | Death Rates, 1912. (Population, Estimated.)† | Birth Rates, 1911. (Population, Estimated.)† | Death Rates, 1912, of Children Under One Year, Per 1,000 Births, 1911. | | |
| * Boston | 27,674 | 686,092 | 24.8 | 735,399 | 16.17 | 25.99 | 119.35 | | |
| Wards 1 | 1,188 | 29,676 | 24.9 | 32,439 | 13.05 | 24.90 | 104.58 | | |
| 2 | 357 | 28,812 | 80.7 | 30,676 | 17.11 | 33.37 | 120.81 | | |
| 3 | 332 | 15,339 | 46.2 | 15,667 | 15.29 | 26.84 | 106.02 | | |
| 4 | 301 | 13,294 | 44.1 | 13,808 | 18.02 | 25.50 | 148.26 | | |
| 5 | 207 | 12,811 | 61.9 | 12,914 | 16.69 | 24.28 | 118.59 | | |
| 6 | 293 | 35,758 | 122.0 | 39,492 | 16.18 | 48.81 | 100.33 | | |
| 7 | 394 | 14,913 | 37.9 | 14,483 | 20.05 | 26.57 | | | |
| 8 | 171 | 32,430 | 189.6 | 33,479 | 12.07 | 33.21 | 70.64 | | |
| 9 | 186 | 26,427 | 141.5 | 29,214 | 15.13 | 27.40 | 106.24 | | |
| 10 | 394 | 25,320 | 64.3 | 26,277 | 11.86 | 10.51 | 114.81 | | |
| 11 | 663 | 27,444 | 41.4 | 30,738 | 9.69 | 14.22 14.57 | 63.73 | | |
| 12 | 235 | 24,294 | 103.4 | 25,948 | 14.98 | | 181.82 | | |
| 13 | 611 | 21,561 | 35.3 | 21,501 | 17.24 | 31.11 | 117.91 | | |
| 14 | 405 | 23,584 | 58.2 | 24,527 | 14.44 | 24.14 | 115.92 | | |
| 15 | 277 | 21,216 | 76.6 | 21,803 | 14.80 | 20.25 | 119.82 | | |
| 16 | 564 | 25,633 | 45.6 | 28,033 | 12.75 | 24.23 | 110.42 | | |
| 17 | 460 | 26,426 | 57.4 | 27,793 | 15.49 | 25.65 | 117,22 | | |
| 18 | 220 | 22,735 | 103.3 | 23,133 | 17.08 | 25.08 | 99.30 | | |
| 19., | 760 | 31,714 | 41.7 | 33,332 | 13.77 | 22.77 | 111.41 | | |
| 20 | 1,716 | 55,720 | 32.5 | 64,723 | 12.97 | 20.33 | ‡158.90 | | |
| _r 21 | 640 | 30,511 | 20.5 | 33,085 | 13.54 | 17.53 | 85.14 | | |
| 22 | 760 | 29,975 | 38.1 | 31,403 | 12.50 | 20.55 | 100.48 | | |
| 23 | 7,617 | 30,668 | 4.0 | 33,423 | 12.13 | 19.93 | 94.94 | | |
| 24 | 3,252 | 37,749 | 11.6 | 41,695 | 12.63 | 23.73 | 103.11 | | |
| 25 | 2,740 | 26,575 | 9.7 | 29,661 | 11.95 | 24.73 | 96.21 | | |
| 26 | 2,869 | 15,507 | 5.4 | 16,152 | 12.29 | 29.59 | 107.30 | | |

^{*}Hyde Park was annexed to Boston January 1, 1912, and became Ward 26. Under "Boston." in the above table, Hyde Park statistics are included.

 $[\]dagger$ Population estimated by arithmetical method, using the censuses of 1905 and 1910. \ddagger An infant asylum is located in this ward.

VITAL STATISTICS.

December. General Summary.

| | | | | | 1913. | 1912. |
|------------------------|--|-----|-------|----|---------|---------|
| Total deaths | | | | | 1,119 | 1,002 |
| Population, estimated* | | | | | 735,399 | 720,031 |
| Death rate per 1,000 | | • (| | •. | 17.92 | 16.39 |
| Deaths of nonresidents | | •* | .′ | | 114 | 127 |
| Corrected death rate† | | | • • • | | 16.09 | 14.31 |

^{*} Population estimated by arithmetical method, using the censuses of 1905 and 1910.

† Nonresidents not included.

December, 1913. Statement of Deaths.

| Total number (stillbirths ex- | NATIVITY. | | | | | | |
|--|----------------------|--|--|--|--|--|--|
| cluded) 1,119 | United States 632 | | | | | | |
| : | Ireland 183 | | | | | | |
| Sex. | England and Wales 26 | | | | | | |
| | Scotland 11 | | | | | | |
| Males 592 | Germany | | | | | | |
| Females 527 | Canada 105 | | | | | | |
| | Italy | | | | | | |
| Condition. | Russia and Poland 45 | | | | | | |
| Single 457 | Sweden and Norway 12 | | | | | | |
| Married 394 | France 1 | | | | | | |
| _ | Other countries 19 | | | | | | |
| Widowed 241 | Unknown 32 | | | | | | |
| Divorced 6 | NATIVITY OF MOTHERS. | | | | | | |
| Unknown 21 | United States 303 | | | | | | |
| | Ireland 344 | | | | | | |
| Color. | England and Wales 37 | | | | | | |
| White 1,081 | Scotland | | | | | | |
| Black (negro or mixed) 35 | | | | | | | |
| Chinese 3 | Canada | | | | | | |
| | Italy 69 | | | | | | |
| Deaths of children: | Russia and Poland 78 | | | | | | |
| Under one year 166 | Sweden and Norway 12 | | | | | | |
| Under two years 186 | | | | | | | |
| Under five years 208 | Other countries | | | | | | |
| Stillbirths during the month, 57 | Unknown 100 | | | | | | |
| or more and the more of the state of the sta | , , , , , , | | | | | | |

| List mber. | | Totals. | | Year. | | | | | Years. | utis. | Years. | Years. |
|---|--|---------|-------|------------|----------|----------|-----------|-----------|------------|---------------|------------|------------|
| Abridged List Class Number. Cannes of Dear. | CAUSES OF DEATH. | 1913. | 1912. | Under 1 Y | 1 Year. | 2 Years. | 3 Years. | 4 Years. | Under 5 Y | 5 to 9 Years. | 10 to 14 Y | 15 to 19 Y |
| | Total, all causes $\begin{cases} 1913 \\ 1912 \end{cases}$ | 1,119 | 1,002 | 166 160 | 20 40 | 9 26 | 6 11 | . 7 | 208 244 | 10 19 | 11 17 | 24 17 |
| 1 | Typhoid fever | 2 | 4 | | | | | | | | | 1 |
| 3 | Malarial fever | | | | | | , | | | | | |
| 4 | Smallpox | | | | | | | | | , . | | |
| 5 | Measles | 1 | 31 | | 1 | | | | 1 | | | |
| 6 | Scarlet fever | . 8 | 8 | | 1 | · 2 | 2 | 1 | 3 | | 1 | |
| 7 | Whooping cough | 1 | 9 | | 1 | | | | 1 | | | |
| 8 | Diphtheria and croup | 9 | 15 | | 3 | 1 | 1 | 1 | 6 | 3 | | |
| 9 | Influenza | 4 | 3 | 1 | | | | | 1 | | | |
| 11 | Cholera nostras | | | , | | | | | | | | |
| 12 | Other epidemic diseases | . 6 | 2 | 4 | | | | | 4 | | | |
| 13 | Tuberculosis of the lungs | 101 | 83 | | | ٠٠٠,٠٠٠ | | *,* * * * | | | 1 | 7 |
| 14 | Tuberculous meningitis | 8 | . 12 | 3 | 2 | | 2 | | 7 | | 1. | |
| 15 | Other forms of tuberculosis | . 7 | . 7 | | | . 2 | | | 2 | 1 | | 1 |
| 16 | Cancer, malignant tumor | 83 | 73 | | | | | | | | | |
| 17 17a | Simple meningitis (except cerebrospinal meningitis). Cerebro-spinal meningitis | . 3 | 3 | 1 3 | 1 | 1 | | | 3 | | | 1 |
| 18 | Apoplexy and softening of the brain, | 51 | 45 | 1 | | | | | 1 | | | |
| 19 | Organic heart diseases | 171 | 138 | 1 | | | | | 1 | | 2 | 2 |
| 20 | Acute bronchitis | 10 | 12 | 3 | | | | 1 | 4 | | | |
| 21 | Chronic bronchitis | 4 | 10 | | | | | | | | | |
| 22 | Pneumonia (except broncho-pneu- | 101 | 110 | 14 | 3 | | | | 17 | 1 | | 1 |
| 22a | monia). Broncho-pneumonia | 44 | . 53 | 23 | 4 | | 1 | 1 | 29 | | | |
| 23 | Other respiratory diseases | 9 | 7 | 1 | 1 | | | | 2 | | | |
| 24 | Diseases of the stomach (cancer ex- | 5 | 7 | | | | , . | | | | | |
| 25 | cepted). Diarrhea and enteritis (under two | 21 | 16 | 20 | 1 | | | | 21 | | | |
| 26 | years). Appendicitis and typhlitis | -13 | 10 | | | . 1 | | | 1 | | | 1 |
| 27 | Hernia, intestinal obstruction | 8 | - 13 | 1 | | | | | 1 | | | |
| 28 | Cirrhosis of liver | 2 | . 6 | | | | | | | | | |
| 29 | Bright's disease and nephritis | 92 | 68 | | | | | | | | | 1 |
| 30 | Diseases of women (not cancer) | . 5 | 7 | | | | | | | | | |
| 31 | Puerperal septicemia | 5 | 4 | | | | | | | , | | |
| 32 | Other puerperal diseases | 8 | 5 | | | | | | | | · | |
| 33 | Congenital debility and malformations. | 58 | 54 | 57 | | 1 | | | ,58 | , | | |
| 34 | Old age | | | | | | | | | | | |
| 35 | Violent deaths | 83 | 60 | 1 | | | | 2 | 3 | 2 | 2 | 3 |
| 36 | Suicide | 10 | 5 | | | | | | | | | |
| 37 | Other diseases | 176 | 118 | 30 | 2 | 1 | | 1 | 34 | 3 | 4 | 6 |
| 38 | Ill-defined causes | 3 | 2 | 2 | | | • • • • • | | 2 | | | |

December, 1913.

| ars. | Years. | ars. | Years. | sars. | Years. | ears. | and | S | Ex. | ist mber. |
|-----------------|-------------|-----------------|-------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------|-------------|------------|------------|--------------------------------|
| 20 to 24 Years. | 25 to 29 Ye | 30 to 34 Years. | 35 to 39 Ye | 40 to 44 Years. | 45 to 49 Ye | 50 to 54 Ye | 55 to 59 Ye | 60 to 64 Ye | 65 to 69 Ye | 70 to 74 Ye | 75 to 79 Ye | 80 to 84 Ye | 85 to 89 Years. | 90 Years an | Males. | Females. | Abridged List Class Number. |
| 30 27 | 49 37 | 65 42 | . 75 55 | 73 61 | 70 58 | 80 73 | 72 56 | 85 74 | 80 73 | 73 67 | 52 42 | 34 21 | 23 12 | 5 7 | 592 515 | 527 487 | |
| | | 1 | | | | | | | | | | | | | 1 | 1 | 1 |
| | | | | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | 4 |
| | | | | | | | | | | | | | | | 1 | | 5 |
| 1 | | | | | | | | | | | | | | | 6 | 2 | 6 |
| | | | | | | | | | • • • • • | | | | | | 1 | | 7 |
| | | | | | | | | | | | | | | | 4 | 5 | 8 |
| | | | | | | | | | | | | 2 | 1 | | 1 | 3 | 9 |
| | | | | | | | | | | | | | | | | | 11 |
| 1 | | | | 1 | | | | | | | | | | | 4 | 2 | 12 |
| 8 | 10 | 14 | 16 | 9 | 13 | 7 | 10 | 2 | 2 | 1. | 1 | | | | 60 | 41 | 13 |
| • • • • • | | | | | | | | | ···· | | | | | | 4 | .4 | 14 |
| 1 | 1 | | | | 1 | | | • • • • • | | | | | | | 5 | 2 | 15 |
| | 2 | 1 | 4 | 5 | 6 | 12 | 8 | 13 | 16 | 6 ~ | 3 | 4 | 2 | 1 | 33 | 50 | 16 |
| • • • • • | | | | | 3 | | • • • • • | • • • • • | | | | • • • • • | | | 2 | 1 | 17 |
| •••• | | | | | | | | | | | | | | | 3 | 1 | 17a |
| | | 1 | 1 | 2 | 3 | 3 | - 5 | 6 | 5 | 9 | 10 | 4 | 1 | | 23 | 28 | 18 |
| 3 | 7 | 2 | 6 | 10 | 8 | 14 | 16 | 33 | 17 | 18 | 17 | 5 | 8 | 2 | 63 | 108 | 19 |
| • • • • • | | | | | | | 1 | | | 3 | 1 | | 1 | | 5 | 5 | 20 |
| 2 | 6 | 9 | 11 | 7 | | | | | 1 | 10 | | 1 | | | 1 | 3 | 21 |
| | | | 1 | | 5 | 7 4 | 8 | 5 1 | 5 | 10 | 4 2 | 1 | 1 | 1 | 47 | 54 | 22 22a |
| • • • • • | | | 1 | 2 | 1 | 4 | . 3 | 3 | 2 | 1 | | 1 | | | 28 5 | 16 | 23 |
| • • • • • | | | | 1 | | 1 | 1 | 3 | | 1 | 1 | | | | 2 | 3 | 24 |
| | | * * * * * | | 1 | | , | 1 | | | 1 | | | | | 10 | 11 | 25 |
| 2 | 1 | 2 | 2 | 1 | | | 1 | | 1 | 1 | | | | | 8 | 5 | 26 |
| 2 | | 1 | 1 | | | 1 | | | 1 | 1 | | | | | 3 | 5 | 27 |
| - | | | | | | 2 | | | 1 | | | | | | 2 | | 28 |
| 1 | 3 | 3 | 10 | 8 | 8 | 10 | 5 | 10 | 9 | 11 | 5 | 4 | 3 | 1 | 52 | 40 | 29 |
| | | | 2 | 1 | 1 | | | | | | | | | | | 5 | 30 |
| 2 | 1 | 2 | | | | | | | | | | | | | | 5 | 31 |
| 2 | 4 | 2 | | | | | | | | | | | | | | 8 | 32 |
| | | | | | | | | | | | | | | | | 23 | 33 |
| | | | | | | | | | | | | | | | | | 34 |
| | | 13 | 11 | 8 | 12 | 8 | 7 | 2 | 6 | 1 | | 1 | 1 | | | 13 | 35 |
| | | 2 | 1 | 4 | 1 | | | | | | | | | | | 2 | 36 |
| 5 | 1 | 12 | 9 | 13 | 11 | 11 | 7 | 10 | 14 | 8 | 8 | 11 | 5 | | | 75 | 37 |
| | | | | 1 | | | | | | | | | | | 1 | 2 | 38 |

| Dec | ember, 1913. | | | | | | | | | | 7/101 | tanı | y by |
|--------------------------------|--|----------------|---------------|----------------|------------------|----------------|----------------|----------------|----------------|-----------------------|----------------|------------------|----------------|
| Abridged List Class Number. | Causes of Death. | on. | | | | | WARD | Resi | DENCE | | | | |
| Abric | | Boston | 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | 11. |
| | All causes | 1,119 | 45 | 41 | 19. | 18 | 18 | 51 | 30 | 38 | 36 | 34 | 37 |
| | Rates per 1,000 popula- 1913 | 17.92 16.39 | 16.33 9.69 | 15.74 16.82 | $14.28 \\ 19.67$ | 15.35 13.80 | 16.41 19.19 | 15.21 14.13 | 24.39 23.36 | $\frac{13.36}{11.72}$ | 14.51 19.11 | $15.23 \\ 12.24$ | 14.17 11.89 |
| 1 | Typhoid fever | 2 | | | | | | | | | | | |
| 3 | Malarial fever | | | | | | | | | | | | |
| 4 | Smallpox | | | | | | | | | | | | |
| 5 | Measles | 1 | | | | | | | | | | | |
| 6 | Scarlet fever | 8 | . 1 | 1 | | | | | | | 1 | | 1 |
| 7 | Whooping cough | 1 | | | | | | | | | | | |
| 8 | Diphtheria and croup | 9 | | | | | | . 3 | | | | | |
| 9 | Influenza | -4 | | | | | | | | 1 | | | |
| 12 | Other epidemic diseases | 6 | ., | | | | | . 1 | 1 | | | 1 | |
| 13 | Tuberculosis of the lungs | 101 | 2 | 5 | . 2 | 4 | 2 | 5 | 4 | 2 | 3 | 3 | 1 |
| 14 | Tuberculous meningitis | 8 | 1 | | | | | | | | | | 1 |
| 15 | Other forms of tuberculosis | 7 | | | | | | | | | | | 1 |
| 16 | Cancer, malignant tumor | 83 | 7 | 5 | | | . 1 | 1 | 2 | 3 | . 3 | 3 | 3 . |
| 17 | Simple meningitis (except cerebro-spinal meningitis). | 3 | | 1 | | | | | | | | | |
| 17a | Cerebro-spinal meningitis | 51 | | | | | | 1 | | | 1 | | |
| 18 | Apoplexy and softening of the brain. Organic heart diseases | 171 | 5 | 5 | 1 | 1 2 | 4 | 5 | 4 | 8 | 3 | 7 | 8 |
| 20 | Acute bronchitis | 10 | | | | | 1 | 2 | | | | | |
| 21 | Chronic bronchitis | 4 | | 1 | | | | | | | | . 1 | |
| 22 | Pneumonia (except broncho- | 101 | 6 | .3 | 3 | 2 | 1 | 12 | 2 | 3 | 3 | 2 | |
| 22 a | pneumonia). Broncho-pneumonia | 44 | 2 | .1 | 1 | 2 | | 4 | 2 | 1 | 1 | | 3 |
| 23 | Other respiratory diseases | 9 | | | | | 1 | | | | 1 | | |
| 24 | Diseases of the stomach (cancer excepted). | 5 | | | | . , | | | | | | | |
| 2 5 | Diarrhea and enteritis (under two years). | 21 | | 2 | 1 | 1 | | | | | | 2 | |
| 26 | Appendicitis and typhlitis | 13 | | | | 1 | | 1 | | 1 | 1 | 1 | |
| 27 | Hernia, intestinal obstruction, | 8 | 1 | | | | | | | 2 | | | 1 |
| 28 | Cirrhosis of liver | 2 | | | | | | | | | | 2 | |
| 29 | Bright's disease and nephritis | 92 | 5 | 4 | 4 | 2 | 1 | 4 | 1 | 3 | 1 | 3 | 7 |
| 30 | Diseases of women (not cancer), | | | | | | | | | | | | |
| 31 | Puerperal septicemia | 5 | , | 1 | | | | | 1 | | | | 1 |
| 32 | Other puerperal diseases | 8 | | | | | | 1 | | . 1 | | | |
| 33 34 | Congenital debility and malformations. Old age | 58 | 3 | 3 | | 1 | 1. | 1 | 2 | 5 | 3 | 1 | 1 |
| 35 | Violent deaths | 86 | 2 | 1. | 2 | 2 | 1 | 4 | | 1 | 4 | 1 | 1 |
| 36 | Suicide | 10 | | | | | | | | | | | |
| 37 | Other diseases | 176 | 4 | 8 | 4 | | 3 | 6 | 11 | 4 | 7 | 5 | 6 |
| 38 | Ill defined causes | 3 | | | | | | | | 1 | | | |
| | Total deaths under one year | 166 | 11 | 5 | 2 | 4 | 2 | 8 | 5 | 9 | 7 | 5 | 4 |
| - | | | | | | | | | | | | | - |

| | | | | | | WARD | RESI | DENCE | • | , | | | | | Boston, Ward Unknown. | Nonresidents. | own. | Abridged List Class Number. |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|------------------|---------------|----------------|----------------|----------------|----------------|--------------------------|---------------|----------|--------------------------------|
| 12. | 13. | 14. | 15. | 16. | 17. | 18. | 19. | 20. | 21. | 22. | 23. | 24. | 25. | 26. | Bosto | Nonre | Unknown. | Abridg Class 1 |
| 45 | 35 | 33 | 29 | 43 | 31 | 35 . | 38 | 73 | 37 | 41 | 50 | 62 | 30 | 23 | 5 | 114 | 28 | |
| 20.42 16.67 | 19.17 16.41 | 15.84 13.60 | 15.66 13.07 | 18.06 12.08 | 13.13 15.92 | 17.81 13.30 | 13.42 14.71 | $13.28 \\ 12.55$ | $13.17 \\ 15.32$ | 15.37 12.93 | 17.61 11.57 | 17.51 15.13 | 11.91 11.49 | 16.77 13.29 | | | | |
| | 1 | | | | | | | | | | 1 | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | 1 | | 4 5 |
| 1 | | | | * * * * * * | | | 1 | | | | 1 | | | | | 1 | | 6 |
| | | | | | | 1 | | | | | | | | | | | | 7 |
| | | | 2 | | | | | 1 | | 2 | | | | 2. | 1 | | | 8 |
| | | | | | | | | | • • • • • | | 1 | 1 | 1 | | | | | 9 |
| 1 | | | | 1 | | 5 | | | | | | | 1 | | | | | 12 |
| 1 | 4 | | 5 2 | 5 | 4 | .5 | 8 | 6 | 4 | 3 | 3 | 7 | 1 | | | 8 | 4 | 13 14 |
| | 1 | | | | | 1 | | | | | 1 | | | | | 3 | | 15 |
| 1 | 2 | 5 | | 3 | | 3. | 1 | 7 | . 3 | 2 | 7 | 6 | 3 | 2 | | 10 | | 16 |
| | 30 0 0 m m | | | | | | | | | | 1 | 1 | | | 0.70.00.00 | | | 17 |
| | | | | | | | | | | | 1 | 1 | | | | | | 17a |
| | | 2 | 1 | 1 | 2 | 2 | 1 | 8 | 2 | 3 | 3 | 3 | 1 | .2 | | 1 | | 18 |
| - 8 | 7 | . 8 | 6 | 6 | 7 2 | 3 | 10 | 9 | 5 | .8 | 11 | 2 | 6 | 2 | 1. | 15 | | 19 |
| | | 1 | | | | | | | | | | 1 | | | | | | 21 |
| 3 | 3 | 2 | 2 | 5 | 2 | 3 | 3 | 9 | 7 | 3 | 4 | - 5 | 2 | 4 | | 6 | 1 | 22 |
| 2 | 4 | 2 | 1 | 2 | | 1 | - 1 | 2 | 4 | 2 | 1 | 2 | | | | . 3 | | 22a |
| | | | 1 | | 1 | | 1 | 1 | | 1 | | | | | | 2 | | 23 |
| 3 | | | | | | | • • • • • | 1 | | | | | | | | . 1 | ٠ | 24 |
| 1 | 1 2 | | 1 | 1 | *** * * * | | | | 1 | 3. | • • • • • | | 1 | 2 | 1 | 5 | | 25 |
| 1 | 4 | | | 1 | 1 | | | 1 | | | 1 | | | | *** * * | 1 | | 26 27 |
| | | | | | | | | | | | | | | | | | | 28 |
| 5 | 3 | 3 | 4 | 3 | 3 | 1 | 2 | - 5 | .5 | 1 | 1 | 7 | 3 | 3 | | 8 | | 29 |
| | | | | 1 | | | | | | | | | | | | 4 | | 30 |
| | | | | | 1 | | | | | | | | 1 | | | | | 31 |
| | | | | 5 | 5 | 3 | | 1 | | | 1 | 1 | 1 | | | 2 | • • • | 32 |
| 3 | | 1 | | 5 | 5 | 3 | 1 | 2 | 2 | 1 | . 2 | 7 | 1 | | | 4 | | 33 34 |
| 3 | 1 | 2 | | 4 | | 6 | 1 | 5 | 2 | 2 | 4 | 2 | 1 | 3 | 2 | 9 | 20 | |
| 3 | 1 | 1 | | 1 | | | | | | 2 | | | 1 | | | 1 | | 36 |
| 8 | 5 | 6 | 6 | 2 | 3 | 5 | 7 | 15 | 2 | . 8 | 5 | 9 | 6 | 2 | | 26 | 3 | 37 |
| 1 | | | | | | | | | | | | • • • • • | | 1 | | | | 38 |
| 7 | 6 | 4 | 4 | 8 | 9 | 4 | 5 | 6 | 6 | 6 | 5 | 10 | 3 | 4 | 1 | 16 | • • • | |

VITAL STATISTICS. December, 1913, Infant Mortality.

| Detailed List Class Number. | CAUSES OF DEATH. | To | EMBER FALS, DER EAR. | Under 1 Day. | to 2 Days. | 2 to 3 Days. | Days to I Week. | Weeks. | to 3 Weeks. | Weeks to I Month. | to 2 Months. | Months. | 6 Months. | to 9 Months. | 12 Months. | Fed. | ED EEKS OVER. | Nonresidents. |
|--------------------------------|--------------------------------|-------|-------------------------------|--------------|------------|--------------|-----------------|--------|-------------|-------------------|--------------|---------|-----------|--------------|------------|--------|---------------|---------------|
| Detail Nu | * | 1913. | 1912. | Under | I to 2 | 2 to 3 | 3 Day | 1 to 2 | 2 to 3 | 3 Wee | 1 to 2 | 2 to 3 | 3 to 6 | 6 to 9 | 9 to I | Breast | Bottle | Nonre |
| | Total | 166 | 160 | 28 | 7 | 10 | 13 | 9 | 7 | 7 | 19 | 12 | 28 | 14 | 12 | 3 27 | 72 | 16 |
| | Male | - 97 | 98 | 18 | 5 | 7 | 7 | 4 | 6 | 4 | 7 | 7 | 16 | 10 | 6 | 15 | 41 | 9 |
| | Female | 69 | 62 | 10 | 2 | 3 | 6 | 5 | 1 | 3 | 12 | 5 | 12 | 4 | 6 | 12 | 31 | 7 |
| | White | -162 | 155 | 27 | 7 | 10 | 13 | 9 | 7 | 7 | 19 | 12 | 26 | 13 | 12 | 25 | 71 | 15 |
| | Colored | 4 | 5 | 1 | | | | | | | | | 2 | 1 | | 2 | 1 | 1 |
| 1 | Typhoid fever | | | : | | | | | | | | | | | | | | |
| 5 | Smallpox | | | | | | | | | | | : | | | | | | |
| 6 | Measles | | 8 | | | | | | | | | | | | | | | |
| 7 | Scarlet fever | | 1 | | | | | | | | | | | | | | | |
| 8 | Whooping cough | | 5 | ٠ | | | | | | | | | | | | | | |
| 9 | Diphtheria and croup | | 3 | | | | | | | : | | | | | | | | |
| 10 | Influenza | 1 | | | | | | | | | | | | 1 | | | 1 | |
| 14 | Dysentery | | | | | | | | | | | | | | | | | |
| 18 | Erysipelas | - 4 | 1 | | | | | | 1 | | | 2 | 1 | | | 2 | . 2 | |
| 19 | Other epidemic diseases | | | ! | | | : | | | | | | | | | | | |
| 20 | Pus-infection and septicemia, | 1 | | | | • • • • | | | | , 1 | | | | | | | _ 1 | |
| 24 | Tetanus | | | | | | | | | | | | | | | | | |
| 28 | Tuberculosis of the lungs | | 1 | | | | : | | | | | | | | | | | |
| 29 | Acute miliary tuberculosis | | | | | | | | | | | | | | | | | |
| 30 | Tuberculous meningitis | 3 | 5 | | | | | | | | | | 1 | 1 | -1 | | 3 | |
| 31 35} | Other forms of tuberculosis | | 1 | | | | | | | | | | | • • • | | | | |
| 36 | Rickets | | | ٠٠٠ | | | | | | | | | | | | | | |
| 37 | Syphilis | 4 | 3 | | | | | | | | 1 | . 1 | 1 | | 1 | | 4 | 1 |
| 38 | Gonococcus infection | | | | | | | | | | | | | | | | | |
| 61 | Simple meningitis | . 1 | | | ٠ | | | | 1 | | | | | | | | 1 | |
| 61a | Cerebro-spinal fever | - 3 | 1 | | | | | : | | | | | 1 | 2 | | 1 | 2 | |
| 63a | Acute poliomyelitis | 1 | | | | | | | | | | | | | 1 | . 1 | | |
| 71 | Convulsions | | 1 | | • • • | | | | | | | | ٠ | | | | | |
| 76 | Diseases of the ears | . 2 | | | | | • • • • | | | | • • • | • • • | 2 | • • • | • • • | 1 | 1 | |
| 79 | Organic diseases of the heart, | 1 | -: | | | | | | | ! | • • • | | 1 | | | | 1 | |
| 89 | Acute bronchitis | 3 | 7 | | | • • | | | • • • . | • • • | 1 | | 1 | 1 | • • • | 3 | • • • •, • | |
| 91 | Broncho-pneumonia | 23 | 13 | | | • • • | 1 | 1 | 1 | 1 | 1 | 4 | 6 | 4 | 4 | 4 | 17 | .2 |
| 92 | Pneumonia | 14 | 14 | | | | 2 | 1 | | | 2 | 1 | 2 | 3 | 3 | 3 | 8 | |
| 93 | Pleurisy | | 1 | | | | | | | | | | | • • • | • • • | | | |
| 103 | Other diseases of stomach | | 1 | • • • • | | | | | • • • | • • • | • • • | | • • • | | | | | |

VITAL STATISTICS.

December, 1913, Infant Mortality.—Concluded.

| Detailed List Class Number. | CAUSES OF DEATH. | Tot Un 1 Y | EMBER ALS, DER EAR. | Under 1 Day. | I to 2 Days. | 2 to 3 Days. | 3 Days to 1 Week. | 1 to 2 Weeks, | 2 to 3 Weeks. | 3 Weeks to 1 Month. | I to 2 Months. | 2 to 3 Months. | 3 to 6 Months. | 6 to 9 Months. | 9 to 12 Months. | 2 W | Bottle Fed. | Nonresidents. |
|--------------------------------|---|------------------|---------------------|--------------|--------------|--------------|-------------------|---------------|---------------|---------------------|----------------|----------------|----------------|----------------|-----------------|---------|-------------|---------------|
| 104 | Diarrhea and enteritis | 20 | 15 | | | 1 | | | 1 | 1 | 6 | 3 | 7 | 1 | | 5 | 14 | 5 |
| 108 | Appendicitis and typhlitis | | | | | | | | | | | | | | | | | |
| 109 | Hernias, intestinal obstruction, | . 1 | 2 | | | | | | | | | | | 1 | | | 1 | |
| 117 | Simple peritonitis | | | | | | | | | | | | | | | | | |
| 119 | Acute nephritis | | 1 | | | | | | | | | | | | | | | |
| 143 | Furuncle | | | | | | | | | | | | | | | | | |
| 144 | Acute abscess | | | | | | | | | | | | | | | | | |
| 145 | Other diseases of skin, etc | | | | | | | | | | | | | | | | | |
| 150a | Hydrocephalus | 2 | | 1 | | | | | | | 1 | | | | | | 1 | |
| ь | Congenital malformations of heart. | 6 | 12 | 1 | | 1 | | 1 | 1 | | 1 | | . 1 | | | 1 | 2 | 1 |
| c | Other malformations | - 7 | 4 | 1 | | 1 | 4 | 1 | | , . | | | | | | | | |
| 151a | Premature birth | . 35 | 30 | 17 | .4 | 4 | 2 | 2 | 1 | 1 | 3 | 1 | | | | 2 | 4 | 3 |
| ь | Congenital debility | 7 | . 7 | 1 | | | | 1 | 1 | 2 | 1 | | - 1 | | | 1 | 4 | |
| 152a | Injuries at birth | 8 | 11 | 4 | 1 | | 2 | i | | | | | | | | · · · · | | 1 |
| b | Other causes peculiar to early infancy. | 8 | 6 | 3 | . 2 | 1 | 1 | | | 1 | | | | | | 1 | | 2 |
| 167 | Burns (conflagrations ex- | | - 1 | | | | | | | | | | | | | | | |
| 168 | Absorption of deleterious gases, | 1 | 1 | | | | | 1 | | | | | | | | | , | |
| 172 | Traumatism by fall | | | | | | | | | | | | | | | | | |
| 182 184 | Homicide | | | | | | | | | | | | | | | | | |
| 187 189 | Ill-defined diseases | 2 | 2 | | | | | | | | 1 | | 1 | | | 2 | | |
| | Other causes | - 8 | 2 | | | 2 | 1 | | | | 1 | | 2 | | 2 | | 5 | 1 |
| | Breast fed * | 27 | 28 | | | | | | 3 | 1 | 4 | 5 | 7 | 4 | 3 | 27 | | 3 |
| | Bottle fed * | 72 | 81 | | | | | | 4 | 6 | 15 | 7 | 21 | 10 | 9 | | 72 | 7 |
| | Nonresidents | 16 | 15 | 2 | 1 | 1 | ٠,٠٠ | · 1 | 1 | | 2 | 1 | 3 | 2 | 1 | 3 | 7 | 16 |
| - | | | | | | | | | | - | | | | | | | | |

^{*} Aged two weeks and over.

Additional Deaths for Other Months.

- May, 1913.—1 female; Brights' disease; white; aged 77 years; married; residence Ward 2; born in United States; mother born in Ireland.
- July, 1913.—1 female; suicide by jumping from high place; white; ag€d 25 years; condition unknown; non-resident; birthplace unknown; birthplace of mother unknown.
- Aug., 1913.-1 female; prematurity; white; aged 1 day minus; single; residence Ward 1; born in United States; birthplace of mother unknown.
- Sept., 1913.—1 male; organic disease of the heart; white; aged 59 years; single; residence unknown; birthplace unknown; birthplace of mother unknown.
 - 1 male; prematurity; white; aged 1 day minus; single; residence Ward 9; born in United States; mother born in Russia or Poland.
 - 1 male; prematurity; white; aged 3 days; single; residence Ward 9; born in United States; mother born in Russia or Poland.

Additional Deaths for Other Months.—Concluded.

Oct., 1913.—1 female; alcoholism; white; aged 47 years; widow; nonresident; birthplace unknown; birthplace of mother unknown.

1 male; alcoholism; white; aged 37 years; single; residence unknown; birthplace unknown; birthplace of

1 male; organic disease of the heart; white; aged 60 years; condition unknown; residence unknown; birth-

1 male; organic disease of the heart; white; aged 60 years; condition unknown; residence unknown; birthplace unknown.
1 female; organic disease of the heart; white; aged 60 years; condition unknown; résidence unknown; birthplace unknown; birthplace of mother unknown.
1 male; suicide by asphyxia; white; aged 25 years; condition unknown; residence unknown; birthplace of mother unknown.
1 male; traumatism by other crushing, etc.; white; aged 52 years; condition unknown; residence unknown; birthplace unknown; birthplace of mother unknown.

Nov., 1913.—1 male; tuberculosis; white; aged 56 years; single; residence Ward 9; birthplace unknown; birthplace of mother unknown.

1 male; alcoholism; white; aged 35 years; condition unknown; residence unknown; birthplace unknown;

 male; epilepsy; white; aged 48 years; condition unknown; residence Ward 8; birthplace unknown; birthplace of mother unknown.
 male; organic disease of heart; white; aged 56 years; condition unknown; residence unknown; birthplace unknown; birthplace of mother unknown. 1 male; organic disease of heart; white; aged 60 years; single; residence unknown; birthplace unknown;

male; organic disease of heart; white; aged 60 years; single; residence unknown; birthplace of mother unknown.
 male; organic disease of heart; white; aged 39 years; single; residence Ward 11; birthplace unknown; birthplace of mother unknown.
 male; organic disease of heart; white; aged 44 years; married; residence Ward 7; birthplace unknown; birthplace of mother unknown.
 female; organic disease of heart; white; aged 64 years; married; residence Ward 7; birthplace unknown; birthplace of mother unknown, white; aged 27 years; single; residence unknown; birthplace unknown; birthplace of mother unknown.
 male; burns (conflagration excepted); white; aged 27 years; single; residence unknown; birthplace of mother unknown.
 male; homicide by firearms; white; aged 28 years; married; residence Ward 26; birthplace unknown;

mother born in Italy.

Nov.- 4 stillbirths.

COMMUNICABLE DISEASES.

DIVISION OF COMMUNICABLE DISEASES, DECEMBER, 1913.

Medical Inspectors.

| New cases visited: | | | | | | | | |
|---|-------|------|-----|-------|-----|-----|----|-------|
| Diphtheria: | | | | | | | | |
| a. Isolation | | | | | • | | • | 77 |
| b. Diagnosis . | | | | | | | | 5 |
| Scarlet fever: | | | | | | | | |
| a. Isolation . | • | | | | | | | 280 |
| b. Diagnosis . | | | • . | * * * | | | | 52 |
| c. Release | | | • | | | | | 57 |
| b. Diagnosis . c. Release Typhoid fever | • | . , | | | | | | 26 |
| Typhoid prophylactic g | given | 4 | | | | | ~. | ~ 10 |
| Measles | | | | | | | | 18 |
| variodia. | | | | | | | | |
| a. Isolation | | • | | | | ٠,. | | 5 |
| b. Diagnosis . | | | | | | | | . 3 |
| Ophthalmia neonatorur | n . | | | | | | | 2 |
| Tuberculosis | | | | | | | | - 5 |
| Tuberculosis Whooping cough . | | | - / | ٠., . | | | | 0 |
| Poliomyelitis | | | | | | | | . 1 |
| Deaths investigated. | ** | • | | | | | | 33 |
| Vaccinations performed | ł . | | | | | | • | 6 |
| Certificates granted . | | | | | | | | 8 |
| | | | | | | | | |
| | Nu | rses | | | | | | |
| New cases visited: | | | | | | | | |
| Diphtheria | | | | | | | | 4 163 |
| Scarlet Yever | | | | | | | | 369 |
| Typhoid fever | | | | • | | | | 35 |
| w nooning collen . | | | | | | | | 61 |
| Ophthalmia neonatorur | n . | | | | | | | 109 |
| Measles | | | 10 | | • 1 | | | 153 |
| Varicella | | | | | | ٠. | | 65 |
| Old cases visited: | | | | | | | | |
| Diphtheria | | | | | | | | 340 |
| Scarlet fever | | , . | | | | | | |
| Typhoid fever | | | | | | | | 102 |
| Whooping cough . | | | • * | | | | | 51 |
| Ophthalmia neonatorum | | | | | | | | |
| | (| 292) | | | | | | • |

| Measles | | | | | | | | 162 |
|--------------------|-----|--------|-----|-----|-------|--|---|-----|
| Varicella | | | . , | | | | | 67 |
| Release cultures t | | | | | | | | 115 |
| | For | cible | Rei | nor | vals. | | | |
| Scarlet fever . | | * 1 | | | | | | 7 |
| Typhoid fever . | | | | | | | | 1 |
| Measles | | • . | | | · | | | 3 |
| | | Disini | | ons | · · | | | |
| Diphtheria | | | | | | | | 168 |
| Scarlet fever . | | | | | | | • | 143 |
| Phthisis | | 4,* | F 1 | | ٠. | | | 148 |

| | | | | | | | | | | | | 9- | |
|--------------------------------|----------------------------|----------------|------------------|-----------------|-------------------------------|-------------|-----------|----------|----------|-----------------------|----------|-------|------------------------|
| Wards, | Anterior Poliomyelitis. | Actinomycosis. | Asiatic Cholera. | Bubonic Plague. | Cerebro-spinal Meningitis. | Diphtheria. | Glanders. | Leprosy. | Malaria. | Malignant Pustule. | Measles. | Mumps | Opht m' Neonatorum. |
| 1 | | | | | | 9 | | | | | 26 | 11 | 2 |
| 2 | | | | | | -11 | | | 1 | 1 | 41 | 3 | 10 |
| 3 | | | | | | 7 | | | | | | | .3 |
| 4 | | | | | | 2 | | | | | 1 | | 1 |
| 5 | | | | | | 2 | | | | | | | |
| 6 | 1 | | | | 1 | 18 | | | | | 4 | 12 | 11 |
| 7 | | | | | | . 2 | | | | | 2 | 1 | 10 |
| 8 | -2 | | | , | | , 16 | | | | 1 | 7 | 42 | 8 |
| 9 | | | | | 1 | 3 | | | | | . 17 | 9 | 5 |
| 10 | 2 | | | | | 2 | | | | | | 4 | 1 |
| 11 | | | | | | 13 | | | | | 4 | 6 | - 1 |
| 12 | | | | | | 6 | | | | | 1 | 1 | 3 |
| 13 | | | | | | 2 | | | | | | 1 | 12 |
| 14 | | | | | | 2 | | | | | 1 | 2 | 3 |
| 15 | | | | | 1 | 6 | | | | | 2 | | 7 |
| 16 | 1 | | | | | 4 | | | | | 1 | 5 | _4 |
| 17 | | | | | | 9 | | | | | 1 | 11 | 1 |
| 18 | | | | | | 9 | | | | · · · · · | 1 | 4 | 4 |
| 19 | | | | | | 11 | 1 7 9 2 | | | | 1 | 7 | |
| 20 | | | | | | 25 | | | | | 5 | 15 | 7 |
| 21 | | | | | | 8 | | | | | . 2 | 16 | 5 |
| 22 | | *.* * * | | | | 5 | | | | | , | 8 | 3 |
| 23 | | | | | 1 | 16 | | | 1 | | | 2 | . 2 |
| 24 | | | | | 1 | 11 | | | | | 3 | 3 | 1 |
| 25 | | | | | | . 9 | | | | | 1 | 2 | 1 |
| 26 | | | | | | 8 | | , . | | | 14 | 1 | 2 |
| Total | . 6 _t | | | | 5 | 216 | | | 2 | 2 | 135 | 166 | 107 |
| Unknown | | | | | | | | | | | | | |
| Nonresidents | | | | | | 29 | | | | | | | 9 |
| Grand total | . 6 | | | | 5 | 245 | | | 2 | 2 | 135 | 166 | 116 |
| Corresponding month last year. | | | | | 2 | 171 | | | 1 | | 677 | 49. | 108 |

Included in the nonresidents were the following cases brought to

COMMUNICABLE DISEASES.

Cases Reported.

December, 1913.

| Scarlet Fever. Smallpox. Tetanus. | Trachoma. | Trichinosis. | Tuberculosis (Pulmonary and Miliary). | Tuberculosis (Other Forms). | Typhoid Fever. | Typhus Fever. | Varicella. | Whooping Cough. | Yellow Fever. | Wards. |
|-----------------------------------|-----------|--------------|---------------------------------------|-----------------------------|----------------|---------------|------------|-----------------|---------------|--------------------------------|
| 37 | | | 5 | 1 | 1 | | 5 | | | |
| 17 | 1 | | 11 | | 2 | | 2 | 4 | | |
| 10 | | | 4 | | 1 | | 3 | | | |
| 6 | 1 | | 16 | | | | 1 | | | 4 |
| 5 | | | 3 | | | | | 1 | | 5 |
| 6 | | | 20 | | 2 | | 4 | 6 | | 6 |
| 2 | | | 18 | 1 | | | 2 | | | 7 |
| 24 | | | 23 | 1 | | | 18 | 5 | | 8 |
| 12 | 1 | | 19 | | | | 3 | | | 9 |
| 2 | | | 13 | | | | | 1 | | 10 |
| 11 | | | 15 | | 2 | | 8 | 2 | | 11 |
| 16 | | | 9 | | 1 | | 2 | 2 | | 12 |
| 12 | | | 10 | | 4 | | 4 | 3 | | |
| 12 | | | 7 | | 5 | | 7 | | | |
| 10 | | | 6 | 2 | 1 | | | | | |
| 9 | | | 7 | 2 | | | 4 | 2 | | |
| 3 | | | 14 | | 1 | | 10 | | | |
| 2 | | | 14 | 1 | 2 | | 19 | . 3 | | |
| 14 | | | 13 | | 2 | | 15 | 5 | | |
| 19 | | | 14 | | 1 | | 8 | 7 | | 20 |
| 10 | | | 9 | | | | 4 | | | |
| 6 | | | 12 | | 3 | | 3 | 1 | | |
| 9 | 1 | | 8 | 3 | | | 10 | | | |
| 30 | | | 8 | 1 | 1. | | 20 | | | |
| 21 | | · , | 4 | | | | 1 | | | |
| 8 | | | 3 | | 1 | | 2 | 1 | | 26 |
| 313 | 4 | | 285 | 12 | 30 | | 155 | 43 | | Total |
| •••• | | | 2 | | | | | | | Unknown |
| 35 1 | | | 10 | 2 | | | | | | Nonresidents |
| 348 1 | 4 | | 297 | 14 | 30 | | 155 | 43 | | Grand total |
| 199 1 | 4 | 1 | 263 | 25 | 20 | | 146 | 121. | | Corresponding month last year. |

Boston for treatment: Diphtheria, 29 cases; scarlet fever, 35 cases.

DIVISION OF CHILD HYGIENE.—DECEMBER, 1913.

1. Pre=Natal and Post=Natal Work.

| 1 P_T | $e	ext{-}Natal.$ |
|---|--|
| Number cases | |
| Mothers attended as follows: | |
| Family physician 4 Hospital 9 | Midwife |
| Results: | |
| Mortality, mothers 0 | Mortality, babies at birth . 5 |
| Defective conditions noted as | s follows: |
| Miscarriage | Varicose veins 3 Miscellaneous 0 |
| 2. Pos | t Natal |
| | |
| $\begin{array}{ccccc} \text{Number cases} & \ddots & \ddots & 866 \\ \text{Number visits} & \ddots & \ddots & 1,767 \\ \text{Number babies not located} & 90 \end{array}$ | Bottle-fed 39 Both feedings 44 |
| Defective conditions noted as | s follows: |
| Ophthalmia 26 Improper feeding | Skin disease 6 Miscellaneous 3 |
| Recommendations: | |
| Family physician | Milk stations 30 |
| 2. Medical Inspe | ection of Schools. |
| Number inspections made | 17.797 |
| Number inspections made Number physical examinations Number visits made to homes | made 16,945 269 |
| There were 1,408 pupils ex month, for the following causes | cluded from school during the: |
| Scarlet fever | Trachoma 1 |
| Measles | Acute or purulent conjunctivitis 24 |
| Unicken pox 36 | Ringworm 90 |
| Pulmonary tuberculosis 12 | Scabies |
| Acute tonsilitis 104 Influenza | Molluscum contagiousum. 2 Miscellaneous 274 |
| /00/ | |

There were 15,807 cases of noncontagious diseases found, subdivided as follows:

| Diseases of oral | and | resp | ira | tory | tract | | | | | 3,909 |
|------------------|-----|------|-----|------|-------|--|---|--|---|-------|
| Diseases of the | ear | | | | | | - | | | 88 |
| Diseases of the | eye | | | | | | | | | 386 |
| Diseases of the | | | | | | | | | | |
| Dental caries | | | | | | | | | , | 5,435 |
| Miscellaneous | | | | | | | | | | 5,263 |

3. Physical Examination of Licensed Minors.

There were 342 girls and 479 boys between the ages of 14 and 16 years examined during the month. Two-hundred and seventy-eight were found without defects and 543 with defects, as follows:

| Hearing | | 2 | Pulmonary disease | | 1 |
|---------------------------|---|-----|--------------------|------|---|
| Eyesight | - | 74 | Cardiac disease . | | 7 |
| Defective nasal breathing | | . 4 | Orthopedic defects | | 1 |
| Hypertrophied tonsils | | 16 | Skin | | 1 |
| Defective teeth | | 495 | | | |

Certificates were granted to 819 applicants; refused to 2.

BACTERIOLOGICAL LABORATORY.

| DACTERIOLOGICA | L LABURATURY. |
|--|--|
| DIPHTHERIA: Positive for diagnosis. | GONORRHEA: 42 Negative. 42 Negative. 120 Unsatisfactory. 0 162 GONORRHEAL OPHTHALMIA: Positive. 52 Unsatisfactory. 0 54 OTHER EXAMINATIONS: *Positive. 11 Negative. 55 Unsatisfactory. 1 67 BACTERIOLOGICAL MILK EXAMINATIONS. 726 BACTERIOLOGICAL I C E CREAM EXAMINATIONS. 40 Total 3,596 C. B., paratyphoids, spirochaetae pallida; |
| INSPECTION OF MI | IK VINEGAD ETC |
| Examination as to St | |
| Samples examined, milk from stores " milk from wagons. " milk from by citizen " milk for bacteriological ex " ice cream for bacteriologic " " vinegar. " butter and cheese " " molasses | - |
| Total samples | 2,449 |
| Satisfactory * on first inspection. Satisfactory on later inspection. Unsatisfactory on first inspection. Unsatisfactory on later inspection. Total number of inspections. Dairies having milk rooms. Dairies without milk rooms. Number of cows inspected. Number of dairies prohibited shipping milk to conditions of premises. * "Satisfactory" means having a score of a card. | 72 77 72 72 |
| DIVISION OF FO | OD INSPECTION. |
| Cattle inspected. 563 Calves inspected. 1,015 Sheep inspected. 71 Swine inspected. 8,564 | Cattle condemned (70 parts)1,086 lbs. Calves condemned (10 whole)313 lbs. Swine condemned (14 whole)1,679 lbs. Swine condemned (248 parts)2,103 lbs. |
| INSPECTION OF PROVISIONS Meats. | S.— ARTICLES CONDEMNED. Miscellaneous. |
| Beef (tainted) 957 lbs. Pork (tainted) 53 lbs. Mutton (tainted) 5 lbs. Poultry (tainted) 6,496 lbs. Rabbits (tainted) 25 lbs. Frogs' legs (tainted) 78 lbs. | Fish (tainted) |
| | 778 on. 15 90 117 |
| QUARA | NTINE. |
| Vessels inspected at quarantine | |

SANITARY INSPECTION DIVISION.

December, 1913.

| New reports | * | 2,724 |
|----------------------------|---|-------|
| Reinspections | | 6.915 |
| New tenement house reports | | 959 |
| Nuisances reported | | 7,831 |
| Legal notices | | 289 |
| Court cases | | 9 |
| Fines | | \$70 |
| Tenements vacated | | 6 |
| Stable permits granted | | 2 |
| Stable permit hearings | | . 3 |
| Stable permit withheld | | 1 |
| Dump permits granted | | 6 |
| Dump permit revoked | | 1 |
| | | |

MONTHLY METEOROLOGICAL SUMMARY. Taken at Weather Bureau, Boston, December, 1913.

| DE | | MPERATU DEGREES AHRENHE | 3 | midity. | itation. | Sun- | | WIND. | |
|--------|----------|-------------------------------|-----------|-------------------|---------------------|------------------------|--|----------------------------------|--------------------------|
| Day: | Maximum. | Minimúm. | Mean, | Relative Humidity | Daily Precipitation | Actual Hours Sunshine. | Average Hourly Velocity. (Miles.) | Maximum Velocity. (Miles.) | Prevailing Direction. |
| 1 | 46 | 37 | 42 | 91 | т | 0 | 5.4 | 10 | N. W. |
| 2 | 45 | 39 | 42 | 86 | 0 | 0 | 6.9 | 13 | N. |
| 3 | 50 | 37 | 44 | 76 | Т | 6.8 | 15.0 | 35 | . N. W. |
| 4 | 47 | 36 | 42 | 68 | 0 | 0.6 | 12.4 | 22 | W. |
| 5 | 53 | 41 | 47 | 64 | 0 | 8.5 | 11.3 | 19 | w. |
| 6 | 46 | 37 | 42 | 55 | 0 | 9.2 | 9.3 | 20 | N. W. |
| 7 | 56 | 37 | 46 | 85 | .89 | 0 | 13.0 | 29 | E. |
| 8 | 55 | 27 | 41 | 58 | 30 | 3,0 | 23.1 | 40 | W. |
| 9 | 41 | 24 | 32 | 46 | 0 | 9.2 | 14.9 | 30 | N. W. |
| 10 | 42 | 28 | 35 | 57 | 0 | 0.5 | 11.1 | 18 | s. w. |
| 11 | 42 | 21 | 32 | - 68 | т | 3.9 | 12.5 | 26 | N.W. |
| 12 | 41 | 20 | 30 | 50 | . 0 | 7.2 | 10.2 | 19 | w. |
| 13 | 53 | 34 | 44 | 69 | 0 | 9.2 | 8.5 | . 14 | w. |
| 14 | 56 | 36 | 46 | 66 | 0 | 5.7 | 12.0 | 25 | W. |
| 15 | 41 | 28 | 34 | 62 | 0 | 9.2 | 12.0 | 24 | W., N. W. |
| 16 | 44 | 32 | 38 | - 56 | . 0 | 0,1 | 6.8 | 13 | W. |
| 17 | 55 | 38 | 46 | 69 | 0 | 9.1 | 10.9 | 19 | s.w. |
| 18 | 48 | 26 | 37 | 68 | T | 4.7 | 11.1 | 26 | W. |
| 19 | 34 | 18 | 26 | . 42 | 0 | 9.1 | 14.2 | 28 | N.W. |
| 20 | 46 | 28 | 37 | 68 | . 0. | 5.3 | 9.7 | 17 | s. w. |
| 21 | 55 | 41 | 48 | 78 | 0 | 6.6 | 4.3 | - 8 | s. w. |
| 22 | 47 | 38 | 42 | 63 | 0 | 2.0 | 7.1 | 14 | N. |
| 23 | 44 | 38 | 41 | 84 | .36 | 0 | 15.4 | 33 | E. * |
| 24 | 47 | 37 | 42 | 94 | .50 | 0 | 11.4 | 27 | N. W. |
| 25 | 38 | 34 | -36 | 90 | .15 | 0 | 7.8 | 22 | N., N. E. |
| . 26 | 42 | | 35 | 97 | .85 | 0 | 19.0 | 30 | N. E. |
| 27 | 32 | 22 | 27 | 64 | 0 | 9.1 | 15.7 | 27 | N. W. |
| 28 | 33 | 20 | 26 | . 54 | 0 | 3.0 | 6.6 | 13 | W. |
| 29 | 34 | 22 | 28 | 66 | 0 | 7.6 | 6.2 | 13 | N. W. |
| 30 | 41 | 24 | 32 | 66 | 0 | 7.1 | 9.7 | 16 | W. |
| 31 | 39 | 25 | 32 | 64 | 0 | 5.4 | 8.4 | 16 | W. |
| Totals | | _ | Committee | | 3.05 | 140.6 | _ | manusia . | - |
| Means | 44.9 | 30.7 | 37.8 | 68.5 | 0.10 | 49% | 11.0 | 8th | w. |

Latitude 42 degrees 21 minutes.

Longitude 71 degrees 4 minutes.

BOSTON WARD MAP.



Provisional Summary of Vital Statistics for the Year 1913 Compared with 1912.

| | 1913. | 1912. |
|---|---------|---------|
| Population (estimated by arithmetical method using the 1905 and 1910 Census). | 735,399 | 720,031 |
| Deaths from all causes (stillbirths excluded) | 11,836 | 11,643 |
| Death rate per 1,000 inhabitants | 16.09 | 16.17 |
| Deaths of nonresidents | 1,541 | 1,448 |
| Corrected death rate per 1,000 inhabitants | 14.00 | 14.16 |
| Deaths of children under one year | 2,111 | 2,186 |
| Births. (From Registry Department. Figures for 1913 are provisional). | 18,697 | 18,888 |
| Death rate of children under one year per 1,000 births | 112.90 | 115.73 |
| Total number of stillbirths | 735 | 742 |

Causes of Death.

| | I. GENERAL DISEASES. | 1913. | 1912. |
|----|-----------------------------------|-------|-------|
| 1 | Typhoid fever | 60 | 57 |
| 4 | Malaria | | - 1 |
| 5 | Smallpox | | |
| 6 | Measles | 77 | 111 |
| 7 | Scarlet_fever | , 77 | 32 |
| 8 | Whooping cough | 97 | 75 |
| 9 | Diphtheria and croup | 156 | 102 |
| 10 | Influenza | 27 | * 27 |
| 12 | Asiatic cholera | | |
| 13 | Cholera nostras | | 1 |
| 14 | Dysentery | 7 | 8 |
| 18 | Erysipelas | 44 | 48 |
| 19 | Other epidemic diseases | ` 1 | 4 |
| 20 | Purulent infection and septicemia | 31 | .27 |
| 21 | Glanders | . 1 | |
| 22 | Anthrax | 1 | 1 |
| 24 | Tetanus | 7 | 3 |
| 25 | Mycoses | 2 | 1 |
| 26 | Pellagra | 4 | 1 |

| | CAUSES OF DEATH. | 1913. | 1912. |
|----|--|-------|-------|
| 28 | Tuberculosis of the lungs | 1,035 | 1,053 |
| 29 | Acute miliary tuberculosis | · 29 | 40 |
| 30 | Tuberculous meningitis | 124 | . 107 |
| 31 | Abdominal tuberculosis | 34 | 35 |
| 32 | Pott's disease | 9 | 7 |
| 33 | White swellings | , 1 | 3 |
| 34 | Tuberculosis of other organs | 18 | , 13 |
| 35 | Disseminated tuberculosis | . 10 | 14 |
| 36 | Rickets | 11 | . 4 |
| 37 | Syphilis | 53 | 63 |
| 38 | Gonococcus infection | | 1 |
| 39 | Cancer and other malignant tumors of the buccal cavity | 42 | 27 |
| 40 | Cancer and other malignant tumors of the stomach, liver | 245 | 252 |
| 41 | Cancer and other malignant tumors of the peritoneum, intestines, rectum. $$ | 151 | 122 |
| 42 | Cancer and other malignant tumors of the female genital organs | 125 | 131 |
| 43 | Cancer and other malignant tumors of the breast | 85 | . 98 |
| 44 | Cancer and other malignant tumors of the skin | 14 | 16 |
| 45 | Cancer and other malignant tumors of other organs or of organs not specified. $$ | 179 | 139 |
| 46 | Other tumors (tumors of the female genital organs excepted) | | 6 |
| 47 | Acute articular rheumatism | 37 | 26 |
| 48 | Chronic rheumatism and gout | 5 | 10 |
| 49 | Seurvy | | . 2 |
| 50 | Diabetes | 138 | 136 |
| 51 | Exophthalmic goitre | 8 | 11 |
| 52 | Addison's disease | 2 | 5 |
| 53 | Leuchæmia | 21 | 21 |
| 54 | Anemia, chlorosis. | 54 | 57 |
| 55 | Other general diseases | 10 | 17 |
| 56 | Alcoholism (acute or chronic) | 158 | 229 |
| 57 | Chronic lead poisoning | 3 | . 3 |
| 59 | Other chronic poisonings. | 1 | , 1 |
| | | 3,194 | 3,148 |
| II | . Diseases of the Nervous System and of the Organs of Special Sense. | | |
| 60 | Enecphalitis | 5 | 9 |
| 61 | (1) Simple meningitis | 58 | 53 |
| 61 | (2) Cerebro-spinal meningitis (undefined) | 33 | 34 |
| 61 | (3) Cerebro-spinal fever | 4 | _ 2 |
| 62 | Locomotor ataxia | 16 | 14 |
| 63 | Other diseases of the spinal cord | 36 | 43 |

| | Causes of Death. | 1913. | 1912. |
|------|---|-------|-------|
| 64 (| Cerebral hæmorrhage, apoplexy | 583 | 546 |
| 65 S | Softening of the brain | 3 | 6 |
| 66 F | Paralysis without specified cause | 19 | 26 |
| 67 C | General paralysis of the insane | 50 | 45 |
| 68 C | Other forms of mental alienation | 9 | 9 |
| 69 E | Epilepsy | 15 | 15 |
| 70 C | Convulsions (nonpuerperal) | . 1 | |
| 71 (| Convulsions of infants | 13 | 26 |
| 72 C | Chorea | 1 | |
| 73 N | Neuralgia and neuritis | 4 | 10 |
| 74 (| Other diseases of the nervous system | 41 | . 35 |
| 75 I | Diseases of the eyes and their annexa | 1 | 2 |
| 76 I | Diseases of the ears | 34 | 23 |
| | | 926 | 898 |
| | III. DISEASES OF THE CIRCULATORY SYSTEM. | | ` |
| 77 F | Pericarditis | 13 | 26 |
| 78 A | Acute endocarditis | 60 | 66 |
| 79 (| Organic diseases of the heart | 1,629 | 1,532 |
| | Angina pectoris | 67 | 38 |
| 81 I | Diseases of the arteries, atheroma, aneurysm, etc | 225 | 182 |
| 82 E | Embolism and thrombosis | 40 | 58 |
| 83 I | Diseases of the veins (varices, hæmorrhoids, phlebitis, etc.) | 5 | 7 |
| 84 I | Diseases of the lymphatic system (lymphangitis, etc.) | 10 | 23 |
| 85 I | Example 1 Hamorrhage; other diseases of the circulatory system | 4 | 2 |
| | | 2,053 | 1,934 |
| | IV. DISEASES OF THE RESPIRATORY SYSTEM. | | |
| 86 I | Diseases of the nasal fossæ | | 1 |
| 87 I | Diseases of the larynx | 11 | 10 |
| 88 I | Diseases of the thyroid body | 4 | 5 |
| 89 A | Acute bronchitis | 82 | 77 |
| 90 (| Chronic bronchitis | 42 | 47 |
| 91 F | Broncho pneumonia | 528 | 446 |
| 92 F | Pneumonia | 924 | 959 |
| 93 I | Pleurisy | 40 | 30 |
| 94 I | Pulmonary congestion, pulmonary apoplexy | 18 | 12 |
| 95 (| Gangrene of the lung | 4 | 2 |
| 96 A | Asthma | 4 | 9 |
| 97 I | Pulmonary emphysema | | 3 |
| 98 (| Other diseases of the respiratory system (tuberculosis excepted), | 7 | 9 |
| | | 1,664 | 1,610 |

| | CAUSES OF DEATH. | 1913. | 1912. |
|---------------------------------|--|--------------------------|-----------------------------|
| - | V. DISEASES OF THE DIGESTIVE SYSTEM. | | |
| 99 | Diseases of the mouth and annexa | 5 | 2 |
| 100 | Diseases of the pharynx | 16 | 23 |
| 101 | Diseases of the œsophagus | 4 | . 1 |
| 102 | Ulcer of the stomach | 33 | 32 |
| 103 | Other diseases of the stomach (cancer excepted) | 39 | 61 |
| 104 | Diarrhea and enteritis (under two years) | 525 | 591 |
| 105 | Diarrhea and enteritis (two years and over) | 78 | 65 |
| 107 | Intestinal parasites | 1 | 2 |
| 108 | Appendicitis and typhilitis | 110 | 110 |
| 109 | Hernia, intestinal obstruction | 117 | 95 |
| 110 | Other diseases of the intestines | 7 | 10 |
| 111 | Acute yellow atrophy of the liver | 1 | . 2 |
| 112 | Hydatid tumor of the liver | 1 | |
| 113 | Cirrhosis of the liver | 69 | 77 |
| 114 | Biliary calculi | 32 | 26 |
| 115 | Other diseases of the liver | 24 | 31 |
| 116 | Diseases of the spleen | | |
| 117 | Simple peritonitis (nonpuerperal) | 11. | 26 |
| 118 | Other diseases of the digestive system (cancer and tuberculosis | 8 | 8 |
| | excepted). | | |
| | | 1,081 | 1,162 |
| | VI. Nonvenereal Diseases of the Gentio-Urinary System and Annexa. | | |
| 119 | Acute nephritis | 43 | 50 |
| 120 | Bright's disease | 724 | 680 |
| 122 | Other diseases of the kidneys and annexa | 22 | - 23 |
| 123 | Calculi of the urinary passages | 5 | 9 |
| 124 | Diseases of the bladder | 11 | 9 |
| 125 | Diseases of the urethra, urinary abscess, etc | 11 | 12 |
| 126 | Diseases of the prostate | 40 | 41 |
| | | | |
| 127 | Nonvenereal diseases of the male genital organs | . 1 | |
| 127 128 | Nonvenereal diseases of the male genital organs | 1 | 1 |
| | | | 1 23 |
| 128 | Uterine Hemorrhage (nonpuerperal) | 1 | |
| 128 129 130 | Uterine Hemorrhage (nonpuerperal) | 19 | 23 |
| 128 129 | Uterine Hemorrhage (nonpuerperal) | 19 | 23 16 |
| 128 129 130 131 | Uterine Hemorrhage (nonpuerperal). Uterine tumor (noncancerous). Other diseases of the uterus. Cysts and other tumors of the ovary. | 1 19 11 5 | 23 16 10 |
| 128 129 130 131 | Uterine Hemorrhage (nonpuerperal) | 1 19 11 5 27 | 23 16 10 22 |
| 128 129 130 131 132 | Uterine Hemorrhage (nonpuerperal) | 1 19 11 5 27 | 23 16 10 22 896 |
| 128 129 130 131 | Uterine Hemorrhage (nonpuerperal) | 1 19 11 5 27 | 23 16 10 22 |

| | -Causes of Death. | 1913. | 1912. |
|---------|---|-------|-------|
| 136 | Other accidents of labor | 9 | 7 |
| 137 | Puerperal septicemia | 50 | 56 |
| 138 | Puerperal albuminuria and convulsions | 41 | 32 |
| 139 | Puerperal phlegmasia alba dolens, embolus, sudden death | 7 | 6 |
| .40 | Following childbirth (not otherwise defined) | | |
| .41 | Puerperal diseases of the breast | | 1 |
| | | 137 | 123 |
| | VIII. DISEASES OF THE SKIN AND OF THE CELLULAR TISSUE. | | |
| 42 | Gangrene | . 14 | 19 |
| 43 | Furuncle | 4 | . 4 |
| .44 | Acute abscess | 18 | 20 |
| .45 | Other diseases of the skin and annexa | 11 | 14 |
| | | 47 | 57 |
| | IX. Diseases of the Bones and of the Organs of Locomotion. | | ` |
| 46 | Diseases of the bones (tuberculosis excepted) | 36 | 38 |
| 47 | Diseases of the joints (tuberculosis and rheumatism excepted) | 2 | 4 |
| 149 | Other diseases of the organs of locomotion | | .2 |
| | | 38 | 44 |
| | | | |
| | X. Malformations. | | |
| L50 | Congenital malformations (stillbirths not included) | 152 | 151 |
| | XI. EARLY INFANCY. | | |
| 51 | Congenital debility, icterus and scierema | 525 | 513 |
| 52 | Other causes peculiar to early infancy | 180 | 208 |
| .53 | Lack of care | · 1 | 1 |
| | | 706 | 725 |
| | XII. OLD AGE, | | } |
| 54 | Senility | 21 | 3- |
| | XIII. External Causes. | | |
| 55 | Suicide by poison | 21 | 2 |
| 56 | Suicide by asphyxia | 23 | 3 |
| 57 | Suicide by hanging or strangulation | 9 | 2 |
| 158 | Suicide by drowning | 8 | |
| 159 | Suicide by firearms | 28 | 2 |
| 160 | Suicide by cutting or piercing instruments | 9 | |
| 161 | Suicide by jumping from high places | 5 | |

| | Causes of Death. | 1913. | 1912. |
|-----|--|--------|--------|
| 162 | Suicide by crushing | | 2 |
| 163 | Other suicides | | . 2 |
| 164 | Poisoning by food | 2 | |
| 165 | Other acute poisonings | 14 | 10 |
| 166 | Conflagration | 42 | 28 |
| 167 | Burns (conflagration excepted) | 77 | 81 |
| 168 | Absorption of deleterious gases (conflagration excepted) | 43 | 56 |
| 169 | Accidental drowning | 77 | 53 |
| 170 | Traumatism by firearms | .4 | 2 |
| 171 | Traumatism by cutting or piercing instruments | 6 | . 7 |
| 172 | Traumatism by fall | 177 | 165 |
| 174 | Traumatism by machines | 31 | 27 |
| 175 | Traumatism by other crushing (vehicles, railways, landslides, etc.), | 199 | 197 |
| 176 | Injuries by animals | 8 | 3 |
| 177 | Starvation | | 1 |
| 178 | Excessive cold | | 6 |
| 179 | Effects of heat | 7 | 6 |
| 181 | Electricity (lightning excepted) | | 6 |
| 182 | Homicide by firearms | 18 | 13 |
| 183 | Homicide by cutting or piercing instruments | 5 | 5 |
| 184 | Homicide by other means | 13 | . 13 |
| 185 | Fractures (cause not specified) | 10 | 13 |
| 186 | Other external violence | 36 | 24 |
| | | 872 | 829 |
| | XIV. ILL-DEFINED DISEASES. | | |
| 187 | Ill-defined organic disease | | |
| 188 | Sudden death | _ 10 | 11 |
| 189 | Cause of death not specified or ill-defined | 15 | 24 |
| | | 25 | 35 |
| | Totals | 11,836 | 11,643 |

| | 1913. | 1912. |
|---------------------|--------|--------|
| Under 2 days. | 375 | 388 |
| 2 days to 1 week | 223 | 228 |
| 1 week to 1 month | 283 | 259 |
| 1 to 3 months | 319 | 398 |
| 3 to 6 months | 383 | 405 |
| 6 to 9 months | 290 | 295 |
| 9 months to 1 year | 238 | 213 |
| | | |
| Total under 1 year | 2,111 | 2,186 |
| Total under 5 years | 2,925 | 2,998 |
| 5 to 59 years | 5,509 | 5,372 |
| 60 years and over | 3,402 | 3,273 |
| All ages. | 11,836 | 11,643 |

Sex.

| | 1913. | 1912. |
|---------|-------|-------|
| Males | 6,326 | 6,082 |
| Females | 5,510 | 5,561 |

The death rate 16.09 per 1,000 population is the lowest rate Boston ever had. The same may be said of the rate for pulmonary tuberculosis, which was 14.47 per 10,000 population.

Summary of Reported Cases of Principal Communicable Diseases with Corresponding Deaths and Case Fatality.

| | | 1913. | | 1912. | | | |
|----------------------|--------|---------|-------------------|--------|---------|-------------------|--|
| | Cases. | Deaths. | Case Fatality. | Cases. | Deaths. | Case Fatality. | |
| Diphtheria and croup | 2,203 | 156 | 7.08 | 1,539 | 102 | 6.63 | |
| Scarlet fever | 1,900 | . 77 | 4.05 | 1,153 | 32 | 2.78 | |
| Typhoid fever | 509 | 60 | 11.79 | 460 | 57 | 12.39 | |
| Measles | 5,627 | 77 | 1.37 | 5,666 | - 111 | 1.96 | |
| Tuberculosis | 3,195 | 1,064 | 33.30 | 3,322 | 1,093 | 32.90 | |
| Whooping cough | 1,368 | 97 | 7.09 | 1,145 | 75 | 6.55 | |

Summary of Rates.

| | MEAN ANNUAL RATE PER 1,000 PERSONS LIVING (EXCLUDING STILLBORNS). | | | | | | | | | One clud- | | |
|-----------------------------------|---|---------|------------------|----------|----------------|-----------------------|-----------------|----------------|---|--|----------------------------|---|
| | | | MORTALITY RATES. | | | | | | | | | Inder One hs (Exclud- |
| | Births. | Deaths. | Smallpox. | Measles. | Scarlet Fever. | Diphtheria and Croup. | Whooping Cough. | Typhoid Fever. | Diarrhea and Enteritis (Under Two Years). | Diarrhea and Enteritis (All Ages). | Pulmonary Tuberculosis. | Deaths of Children Un Year to 1,000 Births ing Stillborns). |
| 1881-85 | 29.71 | 24.71 | .009 | .201 | .361 | 1.536 | .214 | .518 | | | 4.079 | 186.24 |
| 1886-90 | 29.88 | 23.43 | .002 | .117 | .190 | 1.204 | .154 | .389 | | | 3.527 | 177.84 |
| 1891-95 | 31.74 | 23.54 | .009 | . 039 | . 367 | 1.188 | .118 | .310 | | | 2.883 | 166.86 |
| 1896-1900 | 30.93 | 21.06 | .002 | .073 | . 203 | .765 | .130 | .309 | | | 2.423 | 150.80 |
| 1901-05 | 27.52 | 18.75 | .095 | .124 | .153 | .387 | .124 | .224 | .979 | 1112 | 2.168 | 138.41 |
| 1906–10 | 27.81 | 17.88 | .0003 | .127 | .104 | .265 | .113 | .160 | .910 | 1.033 | 1.757 | 133.40 |
| 1911 | 26.07 | 17.08 | .001 | .107 | .107 | .180 | .156 | .091 | 1.010 | 1.139 | 1.549 | 125.15 |
| 1912 | 26.23 | 16.17 | | .154 | .044 | .142 | .104 | .079 | .821 | .911 | 1.518 | 115.78 |
| 1913 (birth figures provisional). | 25.42 | 16.09 | | .105 | .105 | .212 | .132 | .082 | .729 | .837 | 1.447 | 112.90 |



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